

**REQUEST FOR PROPOSAL (RFP)**  
**FOR**  
**Empanelment of vendors for Supply, Installation, and Maintenance of CCTV System and Integrated (Fire & Burglary) Alarm System UCO Bank Dharamshala Zone**

The information provided by the vendors in response to this Request for Proposal (RFP) will become the property of the Bank and will not be returned. The Bank reserves the right to amend, rescind or reissue this RFP. The Bank also reserves its right to accept or reject any or all the responses to this RFP without assigning any reason whatsoever without cost or compensation therefore. The Bank will evaluate the proposals by following such methods, criteria and rationale which, in its opinion, are the best in the interest of Bank.

.....  
**DISCLAIMER**

While the document has been prepared in good faith, no representation or expressed or implied, is or will be made, and no responsibility or liability will be accepted by UCO Bank or any of its employees, in relation to the accuracy or completeness of this document and any liability thereof expressly disclaimed. The RFP is not an offer by UCO Bank, but an invitation for vendor's response. No contractual obligation on behalf of UCO Bank, whatsoever, shall arise from the offer process unless and until a formal contract is signed and executed by duly authorized officials of UCO Bank and the Vendor.

## **REQUEST FOR PROPOSAL**

### **Empanelment of vendors for Supply, Installation, and Maintenance of CCTV systems (DVR, XVR & NVR Based) and Integrated (Fire & Burglary) Alarm System**

UCO Bank, Zonal office Dharamshala, Shyamnagar Dharamshala, Distt- Kangra (Himachal Pradesh)- 176215, invites Request for Proposal (RFP) for Empanelment of vendors for awarding contract of Supply, Installation, and Maintenance of DVR, XVR & NVR Based Close Circuit Tele Vision (CCTV) System and Integrated (Fire & Burglary) Alarm System.

**The details of RFP are furnished as under:**

|                                                               |                                                                                                                                                                                                                       |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of issue of RFP</b>                                   | <b>09.10.2026</b>                                                                                                                                                                                                     |
| <b>Last Date, Time and Place for submission of Bid</b>        | <b>29.10.2026, up to 1700 hours</b> UCO Bank, Zonal office, Security Department, Shyamnagar, Dharamshala, Distt- Kangra (Himachal Pradesh)- 176215,                                                                   |
| <b>Date of Pre-Bid Meeting</b>                                | <b>17.10.2026 at 1200 Hrs.</b> at Zonal Office Dharamshala                                                                                                                                                            |
| <b>Date, Time &amp; Venue of Bid opening of Technical Bid</b> | <b>30.10.2026 at 1130 Hrs.</b> at Zonal Office Dharamshala                                                                                                                                                            |
| <b>Opening of Commercial / Financial Bid</b>                  | <b>01.11.2026 at 1130 Hrs.</b> at Zonal Office Dharamshala                                                                                                                                                            |
| <b>Tender Fee</b>                                             | <b>Rs.1000/-</b> in form of Pay order/ Demand draft payable at Dharamshala.                                                                                                                                           |
| <b>Address for communication</b>                              | As above                                                                                                                                                                                                              |
| <b>Contact Details</b>                                        | <b>Email-</b> <a href="mailto:zodrmshala.sec@uco.bank.in">zodrmshala.sec@uco.bank.in</a> , <b>Contact No.- 7650997142,7650997138</b> (Office) - Conversation only between 10.00 am to 05.00 pm on bank's working day. |

**Note:** 1. In case the specified date of submission and opening of Bids is declared a holiday in Dharamshala, the RFPs will be received till the specified time on next working day and accordingly opening of date of Technical Bid/ Financial Bid/ Pre-Bid Meeting will shifted on next working day of bank.

2. Bids will be opened in presence of the vendors' representative(s) who choose to attend the RFP opening process. One authorized representatives of the Vendor will only be allowed at the time of opening of the RFPs with Authorization Letter with seal and signature issued on the Company's letter head by Company Director or Authorized person.

#### **Important for all participating Vendor/ Company:**

This RFP is a common RFP for CCTV and Alarm System Services. Therefore, please note that all documents to be prepared in separately for one system whether a Vendor/ Company applies for both the Systems or one System. All Tender documents, Tender Fee, EMD, Bank Guarantee, Agreement to be prepared separately for each System i.e. CCTV and Alarm System as per terms & conditions the RFP. Please strike off the name of either CCTV or Alarm System in RFP if applied for any one.

**A. Vendors' eligibility criteria (Non-fulfilling the criteria and non- submission of relevant document is a cause of rejection of Bid of the Vendor):**

1. The Vendor should be a profitable registered company / firm having experience in supply, installation & maintenance of CCTV Systems for at least last 5 years. Audited Balance sheet for last 3 years & copy of ITR to be submitted.
2. The annual turnover of the company must not be less than Rs. 100 Lacs per annum, during last three financial years (Enclose financial statement)
3. The Vendor must have executed order for the installation of CCTV Systems and , in Central / State Government Department or R.B.I./Scheduled Commercial Banks in India during the last three years. An authenticated / verified copy of the Purchase Order and Completion Certificate(s) should be submitted with the technical details (Minimum 02 Govt. offices or 03 Scheduled commercial Banks).
4. The Vendor should enclose Manufacturers' Authorization Letter / Dealership Certificate from the Origin Equipment Manufacturer (OEM) for the relevant DVR, XVR & NVR Based Close Circuit Television (CCTV) System & its Camera and Integrated (Fire & Burglary) Alarm System along with the Technical specification.
5. Registration of GST, firm/company registration, dealer authorization Certificate ESI, Shop & Establishment, EPF, Service tax is essential.
6. **Earnest Money of Rs 10000/-in the form of Pay order/Draft favoring Zonal Office UCO Bank Dharamshala, payable at Dharamshala will be deposited with Technical bid offers.**
7. Vendor should have in line of business at least minimum 5 years & having Office/ Branch Office in Dharamshala/ Kangra Distt. for reaching all Branches/ Offices at the lowest time spent as well as storing sufficient part of CCTV and Alarm System. Vendor has to submit hired office property documents/ rented Agreement papers for the proof of location of your subsidiary Office premises.

**Instructions for Vendors:**

1. The Vendor is advised to submit the Bid strictly in accordance with the terms and conditions of RFP and adhering to the Technical Specifications contained in the RFP documents, and not to stipulate any deviations. Bid containing deviation to the terms and conditions is liable to be rejected.
2. Bid submitted by firms who do not fulfill eligibility criterion will not be considered for acceptance. UCO Bank reserves the right to accept or reject in full or in part any or all Bid/offer without assigning any reason and without any cost or compensation thereto and any decision of UCO Bank in this regard shall be final, conclusive and binding on the offerers.
3. Vendor's registered with SSI, NSIC and having ISO 9001 certification may be given preference.
4. The vendors who are willing for rate contract of CCTV and Integrated Alarm System (Old and new) and its components should only participate.

5. Vendor can submit Bid for both (CCTV System and Alarm System) if they capable or they can submit only one Bid either for CCTV System or Alarm System as per their ability of work. Bid shall be submitted separately for each even if submitted for both CCTV and Alarm System.
6. Vendor should be capable to undertake the AMC of existing CCTV systems and Alarm Systems also.
7. The Vendor should have a back-to-back support from the OEM of the Standalone Digital Video Recorder & Camera. The OEM should be equipped with "After Sales Service Centers" (SSC) at major cities in India, with requisite spare parts etc. Attach the Undertaking of the OEM and List of SSCs. The selected Vendor shall have to cater AMC (non- comprehensive) contract for 3 years for the whole system DVR, XVR & NVR Based Close Circuit Tele Vision (CCTV) System and Integrated (Fire & Burglary) Alarm System and its all spare parts (hardware & software).
8. If price quoted by the vendors in price bid/ commercial bid found unrealistic in comparison with present market rate the bid will be not considered.
9. RFP documents can be obtained by the Vendor from 08.10.2026 against a payment of Rs 1000/- in the form of a demand draft issued by any scheduled commercial bank in India drawn '**favoring UCO Bank Zonal Office Dharamshala, payable at Dharamshala** Distt- Kangra (HP). RFP forms can be downloaded from the website at <https://www.uco.bank.in> In case of downloaded documents, the **fee of ₹1000/-** will have to be paid at the time of submission of the Bid. **Please note that Non-submission of fee of RFP is a cause of rejection of Bid of concerned Vendor. Exemption allowed only as per Govt. Guidelines, which is to be submitted with Bid.**
10. Pre-bid meeting in respect of the RFP, will be held in Zonal office (Security department). No separate communication will be sent for this meeting. All communications regarding points required for clarifications/discussion shall be given in writing on email:- [zodrmshala.sec@uco.bank.in](mailto:zodrmshala.sec@uco.bank.in) prior to pre-bid meeting. After pre-bid meeting no clarification will be entertained.
11. Last date of submission of Bid is by 1700 hours on 29.10.2026.

## **Terms and Conditions of the Request for Proposal (RFP)**

### **1. Introduction :**

UCO BANK, a body Corporate, established under The Banking Companies (Acquisition and Transfer of Undertakings) Act 1970, having its Head Office at 10, B.T.M. Sarani, Kolkata- 700001, India, hereinafter called "The Bank", is one of the leading public sector Banks in India spread all over the country.

UCO BANK is pleased to invite proposal for supply, installation and Maintenance of CCTV System from the prospective bidders having proven past experience and competence in the field and offering services to various banks at different locations in India.

### **2. Scope of Work:**

1. The selected vendor will supply, install and maintain the CCTV systems / Alarm Systems or both with Technical Specifications provided in the RFP Documents in **68 Branches along with its 59 ATMs and 03 Offices located in 08 (Eight) Districts i.e. Chamba, Lahaul & Spiti, Kullu, Kangra, Una, Hamirpur, Mandi and Bilaspur of Himachal Pradesh State. List of Branches and Offices mentioned in Appendix-G.**

2. Complete maintenance of the systems CCTV System with 8 CH, 16 CH & 32 channel DVR/ XVR / NVR and Integrated Alarm System (Burglary & Fire) during warranty period and Non- comprehensive AMC for 3 years thereafter it will be renewed on year to year basis performance of the Vendor. After 03 years the extension of period shall be maximum 02 years which shall be depended upon the Zonal Office Competent Authority and on the basis of satisfactory services rendered during the period. At any point of time Bank can call L-2, L-3, L-4 for the same services if unsatisfactory services or major violation done by the L-1 Vendor during service period with Branches/ ATMs/ Offices.

The Vendor should indicate the compliance of Technical Specifications sheet in his RFP (as per the attached).

The scope of work shall be included to Non- comprehensive AMC, supply, installation including testing, commissioning and handing over of the equipment supplied as per Technical Specifications of CCTV and Integrated Alarm System (Burglary and Fire) at the Bank's office buildings and at the locations specified by the Bank.

The Vendor shall carefully check the specifications and shall satisfy himself that the equipment offered is suitable as per the enclosed Technical Specifications and shall take full responsibility for the efficient operation and guarantee of the specified output of the equipment offered.

### **3. Two Bid system:**

UCO Bank would follow Two Bid system i.e. Technical Bid and Eligibility Bid with Request for Proposal (RFP) contained in one Envelop and Request for Quote (RFQ) – containing Commercial/ Financial Rate information in another Envelop. Both the Envelops shall be kept inside Envelop and on the main envelop it is to superscribe

that **"Empanelment of vendors for Installation and maintenance of Security equipments (CCTV and Alarm system) in the branches/ offices under UCO Bank, Dharamshala Zone."**

- Eligibility cum Technical phase would be completed first. Thereafter, Commercial Information (RFQ) will be opened only from short-listed/empanelled Vendors who qualify in Preliminary Scrutiny and Technical Evaluation stage.
- The vendors are advised to examine all instructions, terms and conditions and technical specifications carefully and furnish the required information unambiguously. **If any offer not submitted in the prescribed formats or with incomplete details is liable for rejection.** UCO Bank is not responsible for non-receipt of offers within the specified date and time due to any reason including postal/ courier service holidays or delay.
- The Bank expects the Vendor to carefully examine all instructions, forms, terms & conditions, technical specifications etc., mentioned in this tender document. Failure to furnish all information required for submission of a RFP not substantially responsive to the tender document in every respect will be at the Vendor's risk and **may result in the rejection of its RFP without any further reference to Vendor.**
- **At any time, prior to cut off date for submission of Bid/Offer, UCO Bank may modify any of the terms & conditions and technical specifications at its sole discretion and the same will be communicated by posting on website only and the amendments shall be binding on them.**

The Bid/Offer should be complete in all respect and must contain all information as asked for, except prices. The technical information should include all components as asked for. The Vendors should sign all the pages of the Bidding documents by the Director of Company or an authorized representative of the Vendor with Company Seal. **Non- compliance is a cause of rejection and in this regard no excuses shall be entertained.** The suggested format for submission of Bid is as follows:

**PART- A -TECHNICAL RFP-(Technical Eligibility criteria) for CCTV & Alarm System Separate**

- (a) Annexure 1 to 5
- (b) Appendix-'A'- Vendor's General Information (Must attach supporting documents i.e. Purchase Order(s), Completion certificate(s) to substantiate claim(s) for each clause and item with the Technical RFP
- (c) Appendix - B -Technical compliance sheet for 8 CH,16 CH & 32 Channel DVR/NVR /SVR & Cameras. And same for the Alarm System. Appendix-'C'-All requisite enclosures as mentioned in 'Other Mandatory Requirements' (Attach requisite documents by marking as indicated).

**Note: Eligibility cum Technical Bid and shall be submitted for separately for the both CCTV and Alarm System.**

**PART- B- COMMERCIAL/ FINANCIAL BID to be contained the rate offered by the Vendor**

**4. System Requirements and Technical Specifications:**

1. CCTV System with fully integrated Standalone 8 CH, 16 CH & 32 Channel Standalone DVR/ XVR/ NVR with embedded software, capable of working in 24x7

environments. The CCTV system comprising Standalone DVR/ XVR/ NVR including storage HDD, Normal Cameras, IP cameras, display Monitor, cabling and other accessories.

2. System shall have combination of Digital CCD color video cameras with fixed lens / Dome, IR, encoders, decoders, network video recorders, network attached storage devices for recording, application software, color video TFT/LCD monitors, keyboard, mouse etc.

3. The system shall offer both Video Stream Management and Video Stream Storage Management. Video frame rate and resolution in respect of individual channel shall be programmable.

4. The system should provide inbuilt facility of Watermarking to ensure tamperproof recording, so that the video recorded cannot be altered and these can be used as evidence at a later date, if so required. The audit trail should be intact for evidential purposes.

5. System shall provide sufficient storage space of all video recordings for a period of 90 days and 180 days as per Bank's requirements, at the given minimum 25 fps per channel NTSC/PAL and D1 playback resolution using necessary compression techniques for all cameras. The system shall have provision to automatically overwrite the new information after the period of 90 & 180 days and necessary script/algorithm must be available in the application.

6. The video shall be compressed using **H.265+ or better** hardware compression.

7. The recording resolution and frame rate for each camera shall be programmable.

8. The system shall be pentaplex i.e. it should have facility for viewing, recording, remote viewing, back up and playback simultaneously.

9. System should have file player software so that back up can be auto played on any PC using Windows Media Player/on a cine player provided free of cost by the vendor.

10. This apart, the product should have series of DVR Cards to enable Mobile Handset as well as Remote PC/Laptop through TCP/IP protocol with the following features also:-

- A) Remote Video on PC and mobile
- B) Supports dynamic/static IP address
- C) DVR Software Kit Information should be based on the open standards
- D) Secured Desktop
- E) Watermark logo Overlay

The vendor submitting technical Bid should ensure that the product offered meets the above specification and criterion. If the technical specification of any vendor does not match the above requirement, offer shall be rejected outright.

#### **5. Submission of Bid**

**All bidders have to deposit EMD of Rs 10000/- with the Technical Bids in separate envelop. Exemption allowed only as per Govt. Guidelines, which is to be submitted with Bid. Please mention on Envelop EMD for "Bid in response to RFP for Supply, Installation, and Maintenance of CCTV System" to be addressed to Zonal Manager and to reach before 1700 hrs IST, 28.10.2026 in the following address:**

**Zonal Manager,**

UCO Bank, Zonal office Dharamshala, Security Department, Shyamnagar, Dharamshala, Distt- Kangra (Himachal Pradesh)- 176215

- Bid/Response to RFP may also be dropped at the Tender Box kept at the above address.
- **All pages of submitting Tender and our RFP will duly signed and sealed of an Authorized person/ Owner of the Company. If the sign is done by an Authorized Person of the Company please submit his Authorization letter of Company Owner/ Partners. In case of non- compliance or signed with missed pages Bid is liable to be rejected.**
- The RFP forms duly completed and sealed should be deposited within the stipulated time and date. Vendors should ensure submission of tender well in advance and late receipt of RFPs shall not be considered.
- Conditional Bids are liable to be rejected.
- Telegraphic, Fax and E-mail submission of Bids will not be accepted.
- Insertions, post scripts, additions and alterations shall not be valid unless confirmed by the Vendor's signature. Bids should be completed in all respects with all attachments/ enclosures/ annexure.
- The Vendor shall satisfy the Bank that he (includes 'she') possesses the necessary technical expertise and qualifications and that he has at his disposal suitable facilities to ensure completion of all the works within the stipulated time to the satisfaction of the Bank. The Vendor shall satisfy the Bank that he is financially in a sound position to fulfill contractual obligations offered to be undertaken by him.

Since the order for the supply of equipment would be placed directly, it is presumed that the Vendor should be able to make the supply of equipment and ensure installation and after sales service etc. without the intercession of agents. Therefore, there should be no need for engaging any agent and the prices quoted shall not include any element of agency commission.

#### **6. Preliminary Scrutiny:**

UCO Bank will preliminary scrutinize the offers received to determine whether they are complete and required technical information have been furnished and also whether the documents have been properly signed, and submitted as per prescribed formats. Offers of the vendors will be rejected outright if any of the following conditions of the eligibility criteria is not satisfied. **Maximum Empanelment of vendor could be restricted up to 5 vendors (on merit basis).**

#### **Criteria:**

If any of the vendors submitting Bids does not fulfil any of the following terms, Bid will be rejected outright.

1. If the Vendor is not in line of supply & installation of CCTV and Alarm System (Burglary and Fire) at least for 5 years as on closing date **of Bid i.e. (29.10.2026).**
2. If the Bid is not accompanied by demand draft / pay order for Rs.1000/- (cost of RFP) favouring UCO Bank in case RFP document is downloaded from website.
3. If the Bid is not accompanied by EMD of Rs.10000/- (only with Technical Bid) in the form of Pay Order / Draft favouring UCO Bank. EMD is returnable to Vendor.
4. If the Vendor does not supplied 50 CCTV systems/ 50 Integrated Alarm System (FIRE & Burglary) to scheduled commercial Banks in the last 3 years of the

equivalent or mentioned model for which RFP is invited. (References of orders to be submitted)

5. If the Vendor does not have **minimum annual turnover of Rs.100 lac** annually in the last three financial years (To be supported by audited financial statement).

6. If the Vendor is not an O.E.M. and has not enclosed M.A.F (Manufacturer's Authorization Form) and warranty compliance statement.

7.If the vendor does not have office in Dharamsha/Kangra and Kullu (attach copy of property or rent agreement/proof registered on the name of Company.

8. If the vendor does not have registration Certificate ESI, Shop & Establishment, EPF, Service tax (attach copy).

#### **7. Technical Bench mark test:**

1. After in house evaluation of response to RFPs by the Bank, the vendors, who meet the requisite criteria, will be short-listed. The performance demonstration may not be conducted for short listed vendors due to constraint of space for Demo in Office but all their equipments viz. Standalone DVR/XVR/NVR (8,16 & 32 Channels, IP Cameras (IR / Dome / Pin Hole & Auto-Iris Vari-focal Lenses) these all equipments must be complying with STQC (Standardisation Testing and Quality Certification) wherever applicable along with its Technical Specifications of International quality certifications. But if required Bank may call for Demo to short-listed Vendors by giving 3-4 days of period.

2. In case of Bank requirement, Bank may call technically documentation qualified bidders before 05/06 days opening of Commercial Bid for demonstration for CCTV and Alarm System separately, which will be intimated by Email only before 05/06 days. The short listed vendors will arrange the demonstration and they will participate at their own costs Vendor those not reached for Demonstration whose Commercial/ price bill will not be opened and treated as rejected.

3. All equipments and accessories used for the demonstration by the vendors should be the one, which has been quoted by them in their Bids as part of the tender document. No chance will be given for re-demonstrate.

#### **8. RFP FEATURES:-**

**8.1. Language of the RFP** – All response to RFPs and supporting documentation must be in English only.

**8.2. Validity Period** – The response to RFPs shall be valid for a period of 120 days from the date of opening of technical Bids. Any response to RFP which is valid for a shorter period shall be rejected by the Bank as non responsive.

#### **8.3. Format & Signing of RFP –**

(a) The Bank in case of non-adherence to the Format or partial submission of Bids will not consider to evaluate the Bid/offer.

(b) Each response to RFP shall be made in the legal name of the Vendor,

(c) Each page of it shall be serially numbered, signed and duly stamped by the Vendor or a duly authorized person to sign on behalf of the Vendor,

(d) Any interlineations, erasure or overwriting shall be valid only if these are initialed by the person(s) signing the Bids.

(e) Executive(s) representing the Vendor should be duly authorized to attend opening of RFP, interacting with the Bank for all sorts of communication

**(f) All relevant information should be given against the space provided for information in the prescribed Appendices.**

(g) All supporting documents of the particular Appendix should be attached to response of the RFP, writing reference thereon.

**8 A. Evaluation of RFP** - The purpose of evaluation of Bids is to determine: -

- (a) Product of the NVR & Camera manufacturer in India for quality and reliability;
- (b) Capability of the proposed NVR & camera to meet functional requirements outlined in the documents;
- (c) Compliance of the NVR(s) & Camera offered with Technical specifications laid down in the RFP;
- (d) Acceptance of terms and conditions
- (e) Service and support structure of the vendor;
- (f) Vendor's standing i.e. experience in supply and service support of similar solutions;
- (g) Vendor meeting the qualification criteria as specified in the RFP documents;
- (h) Sound financial condition for supply and installation and AMC as done by the Vendor/ Company during past years.
- (i) Issued performance certificates by another Bank/ PSU/ RBI/ Govt. organizations.
- (j) **All pages of submitting Tender including RFP must be have page numbered and seal and signed with authorized person of company. If it is not found on each page of tender docs or improper, in that case, Bid shall be rejected.**

#### **8. A.1. General Evaluation:**

1. The Bank will examine the Bids against *Vendor's Eligibility Criteria* mentioned in the RFP document.
2. The Bank will examine the Bids to determine whether they are complete, whether the documents have been properly signed, and whether the RFPs are generally in order.
3. The Bank may waive any minor informality, nonconformity, or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Vendor.
4. During evaluation of the Bids, the Bank may, at its discretion, ask the Vendor for providing clarification on any point mentioned in its RFP. The request for clarification and the response shall be in writing.

#### **8.A.1. Technical Evaluation:**

The technical evaluation will be done on the basis of the quoted specification of each item. Due to space constraints at our Office bench mark test shall be taken after selection of L-1 Vendor, if required which will be the Bank's decision. If the performance of the machine during the demonstration is found to be not in compliance with any of the following parameters as per technical sheet, It may be offered to L-2, L-3, L-4 to demonstrate of their quoted product. The decision of the committee formed by Bank to judge the performance/demonstration of the machine will be final & binding.

#### **8. A.2. Parameters for Technical Evaluation:**

- (a) Appendix - B for (CCTV) -Technical compliance sheet for 8,16, 32 Channel DVR/ XVR/NVR & IP cameras.
- (b) Annexure- 1 for (Alarm System) - Technical compliance sheet for Integrated Fire cum Burglary Alarm System Technical Evaluation will be carried out.

#### **9. DOCUMENTS:**

The Vendor is required to supply all documents pertaining to the Technical Specifications of CCTV & Alarm System separately. This RFP is a common RFP for CCTV and Alarm System Services. Therefore, please note that all documents to be prepared in separately for one system whether a Vendor/ Company applies for both the Systems or one System. All Tender documents, Tender Fee, EMD, Bank Guarantee, to be prepared separately for each System i.e. CCTV and Alarm System as per terms & conditions the RFP. Please strike off the name of either CCTV or Alarm System in RFP if applied for any one or wherever it required to prepare Tender bid.

#### **11. Manufacturer's Authorization Form (MAF):**

Vendors, other than the Original Equipment Manufacturers (OEM), must submit a MAF from their manufacturers. MAF should specifically mention that the OEM shall provide back to back support for Spare & Skill to the Vendor. MAF of both the System (CCTV and Alarm) to be submitted by the Vendor. **No submission of MAF will be a cause of rejection of bid.**

#### **12. Alternative offers:**

No alternative offer for any of the equipments is acceptable. Only one single product (Make & Model) should be offered which is cost-effective and meets the Technical specifications.

#### **13. Modification and Withdrawal of Offers:**

No offer can be modified by the vendor subsequent to the closing date and time for submission of offers. In the event of withdrawal of the offer by eligible vendors, the EMD will not be refunded by the Bank.

#### **14. Verification:**

UCO Bank reserves the right to verify any or all statements made by any or all vendor (s) in the RFP document and to inspect the vendor's facilities and availability of subsidiary Office in other cities if necessary, to establish to its satisfaction about the vendor's capacity to perform the job. Vendor's Office in Dharamshala Town is necessary.

#### **15. Clerical/ Typing Error rectification:**

This will not be the right of Vendor/ Company to take benefit of any Clerical/ Typing Error if found in RFP. It will be informed to us for rectification if required before Pre- bid meeting date. It will be done only in that case if bank found, whether it is rectifiable. In all the matters bank reserve the right to take decision and it is binding to abide by all vendor/ company.

#### **16. No Commitment to Accept Lowest or Any Bid:**

UCO Bank shall be under no obligation to accept the lowest or any other offer received in response to this RFQ and shall be entitled to reject any or all offers including those received late or incomplete without assigning any reason whatsoever. UCO Bank reserves the right to make any changes in the terms and conditions of purchase. UCO Bank will not be obliged to meet and have discussions with any vendor, and or to listen to any representations.

### 17. Signing of Contract:

The successful bidder(s) shall be required to enter into a contract with UCO Bank, Zonal office Dharamshala as per Bank's standard agreement format, within 15 days of the award of the bid or within such extended period as may be specified.

### 18. Security Deposit:

The vendor shall submit a performance security deposit for 10% of the contract value in Bank performance guarantee and will be kept till completion of contract + 3 months in all respects for due performance of the contract.

Bank Guarantee (proforma as per **Appendix-D**)/security deposit equivalent to 10% of the contract value towards composite security deposit cum performance along with the unconditional order acceptance within 15 days of the effective date i.e. date of Letter of Intent which shall be valid for 45 days from the date of opening of Price Bid. If the bidder fails to submit the Bank Guarantee within the stipulated period, the Bank reserves the right to forfeit the security deposit for the earnest money deposit and cancel the contract.

**19. Performance Guarantee for Non- comprehensive AMC:** The vendor shall provide a fresh Bank guarantee/security deposit for an amount of equivalent to 10% of 1 years quoted all-inclusive maintenance contract rate per annum as security deposit for the fulfillment of service contract condition. The Bank Guarantee for maintenance contract shall be valid for the entire contract period of 3 years plus 3 months. Proforma of Bank Guarantee for maintenance contract is as per standard bank's format. If the vendor's performance observed satisfactory and work is renewed then same Performance Guarantee shall be remain valid till the entire work period. Therefore issuance of Performance Guarantee should be for 3 year and 3 months.

### 20. Insurance:

The vendor shall take all insurances (like All Risk Policy, Workmen Compensation Policy, Public Liability Policy, Overseas Transit Policy etc.) at his own cost to cover all kinds of risks from the time the equipment leaves the manufacturing facility till commissioning and handing over which shall also cover storage, installation, testing and third party liability at the erection site and operationalization of the systems at respective sites.

### 21. Further Orders:

The Bank may place further orders for supply, installation, and maintenance of CCTV systems at the same rate and terms & conditions as per the Rate Contract entered into with finally selected vendor, within 12 months period from the date of first purchase order. However, if during the said 12 months period, any downward price-revision for any of equipments occurs and then vendor must offer the same to the Bank without any delay and request from the Bank.

### 22. Order Cancellation:

The Bank reserves the right to cancel the purchase order in the event of one or more of the following situations: -

1. Delay in supply, installation and commissioning of equipments, beyond the specified period of 15 days.

2. In the event of order cancellation, the vendor shall be responsible to take back the faulty equipments at their cost & expenses.

3. Serious discrepancy in quality of supplied equipments if found the bank has right to terminate the order as well as whole contract on immediate basis without assigning any reason. In this case Bank may black list the Vendor and invite for the same work contract from other empanelled Vendors at the same rate terms & conditions.

### **23. Manuals / Guides:**

The equipments will have to be supplied with all the manuals / guides in electronic form and / or printed booklet(s) as provided by the respective Original Equipment Manufacturers. All the manuals / guides should be in English only.

### **24. Hardware Warranty:**

- The offer must include comprehensive on-site warranty, covering all parts, for minimum 1 year period starting from the date of installation and acceptance of the system by the Bank. Vendor shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of all installed equipments covered by the tender document. Vendor must warrant all equipments, against any manufacturing defects during the warranty period.
- During the warranty period vendor shall maintain the systems and arrange repairing and/or replacement of all defective components at the site for free of charge to the Bank.
- Also, the warranty of the equipments procured shall not become void if the Bank further buys any other supplemental equipment from a third party and installs it with these equipments in the presence of the representative of the vendor.

### **25. Annual Maintenance Contract (AMC):**

- **Annual Maintenance Contract (AMC) is Non- Comprehensive based:** AMC will be done for present available Systems of Branches, ATMs and Offices. In the case of new installation, after expiry of one year of warranty period, as per contract with the vendor(s) for Post-Warranty support required for proper maintenance of equipments supplied by them. The vendor(s) must undertake to provide for equipments and arrange for spare parts for a minimum period of 3 years after expiry of warranty period. The vendor shall provide service / support within 24 to 72 hour of complaint. The vendor(s) will not outsource the maintenance work assigned by the Bank, to any second party and will arrange attending of all complaints registered by the Bank officials through its own service / support infrastructure only.

### **26. Support:**

The vendor is required to provide sound after-sales service/support by arranging timely attending of calls (within 72 hour) received from the branches/offices where the equipments have been supplied & installed and problem rectification through competent service engineers. The desired support time should be uniformly maintained at all the sites. To meet up time the vendor has to maintain sufficient inventory of spare parts/equipments at all the support centers to avoid unnecessary delay in obtaining the spare parts/equipments. In case of failure to

bring back the system in proper working order within the time stipulated above, a **penalty of Rs 300/- per day shall be levied till the system remains non-functional.**

The vendor must supply the details of its service/support infrastructure meant for registering the complaints along with the contact numbers like mobile nos., phone nos., electronic mail addresses and names etc. of its service engineers/technicians.

**27. Quality performance of Main and Spare Parts:**

Vendor will ensure availability of spare parts for the supplied equipments for a minimum period of 4 years from the time of their acceptance. All items/ Parts of CCTV and Alarm Systems must be complied with technical specification and best performing Brand items. In the case of frequent complaint Bank will do debar or Blacklist to the Vendor/ Company. So quote only best performing and easily available spare item/part Brand.

**28. Hardware Failure:**

If, during the warranty period as well as AMC period, any equipment fails to function properly four or more times during a quarter due to any reason except force majeure event, the vendor shall arrange replacement of the same by new equipment of same or higher configuration, at no cost to the Bank.

**29. Indemnity:**

Vendor shall indemnify, protect and save the Bank against all claims, losses, costs, damages, expenses, action suits and other proceedings, resulting from infringement of any patent, trademark, copyright etc. or such other statutory infringements in respect of all the network equipments supplied by it.

**30. Publicity:**

The vendor shall ensure that the name of the Bank does not appear in any of its advertisements, product demonstrations, sales promotion schemes, or any publicity initiatives, without obtaining explicit written permission of the Bank in this regard. The Bank, however, reserves the right to reject any such request made by vendor.

**31. Guarantees & Warranty of product:**

Vendor should guarantee that the equipments delivered to the Bank are brand new. All equipments must be sealed box-packed and supplied with their original and complete electronic and / or paper printed documentation. The equipment must conform to the highest quality and standard. In case of software, the Vendor should guarantee that the equipment supplied to UCO Bank is licensed and legally obtained. All hardware and software must be supplied with their original and complete printed documentation. Consistency must be maintained for the entire lot of the equipment offered. All the required quantity of an item in schedule of requirement must be of the same brand and same model number. All the equipment and peripherals should be supplied with the relevant interface cables.

Vendor will give warranty minimum 01 year and during warranty period newly defunct item will be replaced free of cost. If system is brought for repair in that condition vendor will install standby of same make and model till repairing of new items/ parts not completed and installed.

**32. Completeness of the contract:**

The contract will be deemed as incomplete if any component of the hardware, software, peripheral devices, etc. or any documentation / media relating thereto is not delivered, or is delivered but not installed and / or not operational or not acceptable to the Indenter after acceptance testing / examination. In such an event, the supply and installation will be termed as incomplete and it will not be accepted and the Warranty period will not commence. The Warranty period will commence only on acceptance of equipment by the Indenter.

**33. Liquidated Damages for delayed supply:**

Time is the essence of the Contract. The entire work up to the stage of installation and testing i.e. commencement of operation of the system shall be completed within given time period from the 10<sup>th</sup> day of acceptance of letter of intent failing which liquidated damages for equipments not supplied will be levied at the rate of 1% of the cost of equipments for each completed week of delay or part thereof, subject to a ceiling of 10% (Ten percent) of the price of each set of CCTV equipment.

**34. Maintenance Contract:**

The scope of the contract shall comprise and include all costs including all taxes, duties, levies and other transport, handling, insurance charges for the following:

- (a)** Routine servicing, trouble shooting, settings, adjustments, cleaning to ensure smooth and trouble free working of the system minimum once in a quarter.
- (b)** Repairs to the systems and trouble shooting of software in the event of any break down including cost of repair / supply of spares / components / sub systems.
- (c)** Stocking of all essential spares / sub systems in respective sites or in their / their representative's office.
- (d)** Import of the spares/sub systems for repairs/replacement inclusive of customs duty shall be the responsibility of the contractor and non- availability of spares in the stock at site/at his office in India will not be accepted as a reason for waiver of penalty towards delay in rendering prompt service.
- (e)** The Bank shall have the option to terminate the service contract any time during the contract period by giving a written notice of 01 months, without assigning any reason thereof. However, the contractor shall commit himself to the service contract for a minimum period of 3 years excluding the period of warranty and has no right to terminate the contract within this period.

Payments shall be made quarterly by Zonal office after submission of visits reports seal and signed by branches completion of each quarter of coverage site wise.

**(f) Important:**

**Four mandatory quarterly visit in one quarter to each branch (including ATM) and Office will be carried out. All ATMs or ATM CCTV will be the part of Branch. No separate AMC charges will be paid for ATM. ATM visit observation will be maintained in the Technician Visit Report. Non- compliance of 04 visit in a quarter will attract penalty ₹300 per left Branch in a quarter and its amount will be deducted from quarterly AMC Bill invoice. No excuses of non- visit of a branch/ office will be entertained except Bank related causes.** Visiting technician will carry sufficient running spares parts (frequently defecting spare parts) like Camera, wiring, Panic switch, SMPS, Power Supply, BNC Connector, CMOS Battery etc. and

immediately replace and rectify the problem of CCTV and Alarm System by taking permission of Branch Manager and Security Officer. In this regard technician will submit justification for the same Branch Manager and Security Officer. If any major part of the System has been defunct then immediately its approval to be taken from Zonal Office/ Security Department and within 2-3 days it will be replaced for functioning of the System.

**(g)** Bank will not be responsible for any arrangement of stay/ travel/ TA/DA of technician/staff of Vendor during their visit of Branches/ Offices.

**(h) Visiting technician will check the CCTV Remote viewing wiring and setting of data in DVR/XVR/NVR and details of the same to be endorsed in Visit report. He will also check installed single IP Camera and its footage availability and will write in visit report. Non- compliance will attract penalty ₹300/- per Branch and to be deducted from quarterly submitted AMC bill.**

**(i)** Technician of Alarm System will ensure functioning of all Panic switches and sensors and all Fire smoke detectors.

**(j)** Vendor will keep item wise CCTV/ Alarm System inventory data in Excel Sheet and it will be submitted quarterly to our Office without fail. Non- compliance of instruction shall be viewed seriously and Bank shall mark non-performance of Vendor.

### **35. Indemnity to Bank:**

The vendor shall indemnify UCO Bank and keep indemnified against any loss or damage that the UCO Bank may sustain on account of any violation of patents, trademark etc., by the vendor in respect of the products supplied.

### **36. Force Majeure:**

The vendor shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that it's delay in performance or other failure to perform its obligations under the contract is the result of an event of force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Vendor and not involving the vendor's fault or negligence and not foreseeable. Such events may include, but are not limited to, Acts of God or of public enemy, acts of Government of India in their sovereign capacity, acts of war, acts of UCO Bank in fires, floods and freight embargoes. If a Force Majeure situation arises, the Vendor shall promptly notify UCO Bank in writing of such conditions and the cause thereof within twenty calendar days. Unless otherwise directed by UCO Bank in writing, the Vendor shall continue to perform it's obligations under the Contract as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. In such a case, the time for performance shall be extended by a period(s) not less than the duration of such delay. If the duration of delay continues beyond a period of one month, UCO Bank and the vendor shall hold consultations with each other in an endeavour to find a solution to the problem. Notwithstanding above, the decision of UCO Bank shall be final and binding on the vendor.

### **37. Resolution of Disputes:**

UCO Bank and the vendor shall make every effort to resolve amicably, by direct informal negotiation, any disagreement or dispute arising between them under or

in connection with the contract. If after thirty days from the commencement of such informal negotiations, UCO Bank and the Vendor have been unable to resolve amicably a contract dispute; either party may require that the dispute be referred for resolution by formal arbitration.

### **38. Arbitration:**

In case of any dispute or difference arising out of or in connection with or in carrying out of the work (whether during the progress of the work or after completion and whether before or after the determination, abandonment or breach of contract) except as to any of the excepted matters provided hereunder the parties hereto, shall first Endeavour to settle such disputes or differences amicably. If both the parties fail to reach such amicable settlement, all the disputes or differences shall be finally settled by arbitrator as provided herein.

In case of failure of such amicable settlement by the parties, then either party may within 28 days of such a failure give a written notice to the other party requiring that all matters in dispute or difference be arbitrated upon. Such written notice shall specify the matters which are in dispute or differences of which such written notice has been given and no other matter shall be referred to the arbitration of a single arbitrator to be appointed by both the parties or in case of disagreement as to the appointment of a single arbitrator, the provisions of Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and rules framed there under from time to time shall apply to such arbitrations.

In the event of the Arbitrator dying, neglecting, refusing to act or resigning or being unable to act for any reason or the award being set-aside by the Court for any reason it shall be lawful for the parties to appoint another Arbitrator in the manner provided herein above. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

The venue of arbitration shall be New Delhi, India.

The Arbitrator appointed under this Schedule shall have the power to extend the time to make the award with the consent of the parties.

Pending reference to arbitration and award thereon, the parties shall make all endeavours to complete the work in all respects as herein contracted and all disputes, if any, will finally be settled in the arbitration.

Upon every or any such references to the arbitration, as provided herein the cost of and incidental to the reference and award respectively shall be, at the discretion of the Arbitrator or Arbitrators or the Umpire, as the case may be, who may determine the amount thereof.

The Arbitrator shall give reasoned award in respect of each item of disputes, which shall be final and binding on both the parties. It is agreed that the Vendor shall not delay the carrying out of the work by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the work with all due diligence and shall, until the decision of the Arbitrator, as the case may be, is given, abide by the terms and conditions of the contract herein, as also instructions with regard to the actual carrying out of the work herein contracted and no award shall relieve the Vendor of his obligations to adhere strictly to the terms and conditions of the contract herein as also instructions with regard to the actual carrying out of the work. The Bank and the Vendor hereby also agree that

arbitration under this schedule shall be a condition precedent to any right of action, under the Contract.

In case during the arbitration proceedings, the parties mutually settle, compromise or compound their dispute or difference, the reference to arbitration and the appointment of the Arbitrator, as the case may be, shall be deemed to have been revoked and the arbitration proceedings shall stand withdrawn or terminated with effect from the date on which the parties file a joint memorandum of settlement thereof with the Arbitrator, as the case may be.

If any fees are to be payable to the arbitrator this shall be paid equally by both the parties.

**39. Agreement:**

Agreement will be done with the work allotted Vendor after completion of finalization of Vendor/ company for the work. The proforma will be provided by the Bank.

**40. Jurisdiction:**

The jurisdiction of the courts, in case of any dispute, shall be Dharamshala (Kangra Distt, State- Himachal Pradesh) only.

**Signature and Seal of the bidder**

**ANNEXURE- I**

**ELIGIBILITY CRITERIA FOR BIDDER FOR EMPANELMENT FOR INSTALLATION AND MAINTENANCE OF SECURITY EQUIPMENTS (CCTV AND ALARM SYSTEM) IN THE BRANCHES/ OFFICE UNDER UCO BANK, DHARAMSHALA ZONE.**

**A. Experience in execution of required work and performance certification by client(s).**

Reputed Bidder should have experience in executing the similar work for which empanelment is sought as under at the Public sector banks/ RBI/ Govt. organizations/PSU in last 7 years as on 30<sup>th</sup> September 2026.

- a) Three similar completed or active contracts of AMC and installation of Alarm/ CCTV System in not less than 27 branches/ locations in last 7 years as on 30<sup>th</sup> September 2026.

**OR**

- b) Two similar completed or active contracts of AMC and installation of Alarm/ CCTV system in not less than 33 branches/ locations in last 7 years as on 30<sup>th</sup> September 2026.

**OR**

- c) One similar completed or active contract of AMC and installation of Alarm/ CCTV system in not less than 53 branches/ locations in last 7 years as on 30<sup>th</sup> September 2026.

Documentary proofs for the above like Annual maintenance contract(s)/ work order(s) and performance certificate(s) of the each allotted work/ contract issued by respective client Public sector banks/ RBI/ Govt organizations/PSU must be provided with bid to establish the eligibility of Bidder. Bid without minimum required work order/ contract and their performance certificates as above would be treated as ineligible. Work order / contract not supported by its performance certificate would be treated as NULL.

**B. Certification of performance by client(s) Public sector Banks/ RBI/ Govt. organizations/PSU.**

1. Each work order/ contract submitted as warranted above must be supported by performance certificate(s) as per Appendix-IV of this tender document. Performance certificate should be duly filled on letter head of the clients, signed by the officials dealing in procurement/ maintenance of physical security equipments (preferably security officer).
2. Bank can confirm the genuineness of the performance certificate issued by client at its own sources. In case the authenticity of performance certificate or work order/ contract found uncertain, the tender of the bidder would be rejected.
3. Performance certificate issued by client would be taken as the proof of the nature of work done, number of branches/ offices/ sites covered and period of contract, quality of equipments installed, level of after sale services and relationship with the client as far as terms of contract is concerned.
4. Minimum standard for eligibility for bidder as confirm from performance certificate by clients should likewise:
  - i. Purpose, nature of work executed, number of branches/ offices/ sites covered should be in the lines of Para A of this annexure.
  - ii. Equipments installed should be as per specification provided by clients.
  - iii. Average time taken in defect rectification should be less than seven (7) days and time taken in new installation should be less than 15 days.

- iv. Quality of work executed, capability, technical proficiency, financial soundness, mobilization of manpower of firm, quality of product installed should not be unsatisfactory.
- v. Instances of imposition of penalty should be less than three in the period of contract.
- vi. Bidder should not be indulged in arbitration/ court case with the client.
- 5. Provide list of client and their contact details to ascertain the genuineness of quality of services bidder have rendered. In case work/ services of bidder found unsatisfactory in any of the work/ contract, their bids would be treated ineligible.

**C.** Bidder should have minimum three years of experience as on 30<sup>th</sup> September 2024 in maintenance and installation of security equipments (Alarm system/ CCTV). Hence provide at-least **one work order/ contract commenced/ executed prior to 31/12/2021**.

**D. Certification by Original Equipment Manufacturer (OEM).**

- 1. Bidder should be the authorized equipment manufacturer/ assembler or have authorization from OEM for consistent supply/ servicing of spare / equipments for next 5 years.
- 2. In case bidder is the Original Equipment Manufacturer (OEM), bidder have to provide certificate (as per Appendix-I) about manufacturing of product, genuineness of the products and after sale services and supply of accessories.
- 3. In case bidder is not the OEM, the bidder will have to essentially mention the name of the Original equipment manufacturer (OEM) whose product is to be supplied and the country of origin of the product along with technical specifications. Bidder will also to have certificate in respect of country of origin of products. Product offered should be manufactured in India. Bidder has to submit a certificate from the original equipment manufacturer (OEM) that they are the authorized agents for the sale and service of their product and manufacturer undertakes to support the after sales service of the product. Bidder should provide manufacturer authorization form (MAF) duly signed by the OEM in the name of bidder (Appendix- II).
- 4. All new installed products will stand for onsite comprehensive warranty against all defects in warranty period. During the warranty period the Bidder shall have to provide quarterly preventive service and shall have to attend to all breakdown calls within 24 hours and 48 hours for remote area branches.
- 5. Bidder have ability to provide security equipments of similar or higher technical specifications fixed by bank. The products offered should be manufactured in India.

**E. Registration, Establishment and Service network:-**

- 1. As the major part of work is for 24X7 maintenance of the existing security systems in our branches so, Bidder should have local office/ registered office/ services center in the state of Himachal Pradesh in Dharamshala and Mandi City. Hence provide proof of local address, which is subjected to confirmation through our sources.

2. Ability to commence services within 15 days from the date of placement of order and complete within a month from placement of order.
3. Bidder should be registered under Shops and Establishment act.
4. **Ability to undertake the work of all branches throughout Maharashtra and Goa state under this zone.**
5. Bidder should have a Certificate of Registration with Registrar of Companies or Registrar of Firms or have a letter of proprietorship.
6. Bidder should provide the latest Income Tax Assessment Order and PAN/ TAN Number.
7. Bidder should have GST registration.

**F. Financial soundness and stability:-**

1. Bidder should have positive Net worth; provide the Audited account and Balance Sheet of last 3 Years.
2. Bidder should have total annual turnover equal or more than the estimated cost work i.e. 50 lacs for last three years. Provide proof for the same of last three years.
3. Bidder should provide name and address of banker with solvency certificate not older than one year. The value of solvency not less than Rs. 20 lacs for empanelment for CCTV System and Rs 10 lacs for empanelment for Alarm System. In case bidder seeking empanelment in more than one items the value for solvency would be cumulated accordingly.

**Documentary proofs duly signed by authorized signatory of bidder establishing above required eligibility should be provided with bid. For assistance bidders are advised to go through the checklist (Appendix- III) for submission of documents in compliance of eligibility. Bid submitted without proper documentary proofs establishing their eligibility is treated as ineligible.**

**Appendix- III**

**CHECKLIST FOR BIDDERS FOR SUBMITTING ELIGIBILITY BID IN COMPLIANCE OF TERMS OF ANNEXURE-I**

| SN        | Documentary proofs establishing eligibility of bidder                                                                                                                                                              | Provided (Yes/ No) |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1         | Duly filled Application format (Appendix- V)                                                                                                                                                                       |                    |
| 2         | Proof of local address in state of Himachal Pradesh in Dharamshala and Mandi City.                                                                                                                                 |                    |
| 3         | Registration under Shops and Establishment act.                                                                                                                                                                    |                    |
| 4         | List of clients with contact details.                                                                                                                                                                              |                    |
| 5         | Certification from OEM ( Appendix-I)                                                                                                                                                                               |                    |
| 6         | Authorisation from OEM for consistent supply of spare/services.(Appendix-II)                                                                                                                                       |                    |
| 7         | Certificate of Registration with Registrar of Companies or Registrar of Firms or have a letter of proprietorship as applicable.                                                                                    |                    |
| 8         | Copies of last three year ITR.                                                                                                                                                                                     |                    |
| 9         | TAN / PAN registration.                                                                                                                                                                                            |                    |
| 10        | Copies of Audited account balance Sheet of preceding 3 years.                                                                                                                                                      |                    |
| 11        | Copies of last three years account statement/ GST returns.                                                                                                                                                         |                    |
| 12        | Insolvency certificate from Bank not older than 1 year.                                                                                                                                                            |                    |
| 13        | Copy of GST registration.                                                                                                                                                                                          |                    |
| 14        | Proof of payment of Tender fee/ DD                                                                                                                                                                                 |                    |
| 15        | Copies of three similar contracts/ work orders of AMC and installation of Alarm/ CCTV system along with performance certificate from issuing organisation in not less than 27 branches/ locations in last 7 years. |                    |
|           | Work order/ contract -1                                                                                                                                                                                            |                    |
|           | Performance certificate against above.(Appendix- IV)                                                                                                                                                               |                    |
|           | Work order/ contract -2                                                                                                                                                                                            |                    |
|           | Performance certificate against above.(Appendix- IV)                                                                                                                                                               |                    |
|           | Work order/ contract -3                                                                                                                                                                                            |                    |
|           | Performance certificate against above.(Appendix- IV)                                                                                                                                                               |                    |
| <b>OR</b> |                                                                                                                                                                                                                    |                    |
|           | Copies of two similar contracts/ work orders of AMC and installation of Alarm/ CCTV system along with performance certificate from issuing organization in not less than 33 branches/ locations in last 7 years.   |                    |
|           | Work order/ contract -1                                                                                                                                                                                            |                    |
|           | Performance certificate against above.(Appendix- IV)                                                                                                                                                               |                    |
|           | Work order/ contract -2                                                                                                                                                                                            |                    |
|           | Performance certificate against above.(Appendix- IV)                                                                                                                                                               |                    |
| <b>OR</b> |                                                                                                                                                                                                                    |                    |
|           | Copy of one similar contract/ work order of AMC and installation of Alarm/ CCTV system along with performance certificate from issuing organization in not less than 53 branches/ locations in last 7 years.       |                    |
|           | Work order/ contract -1                                                                                                                                                                                            |                    |
|           | Performance certificate against above. (Appendix- IV)                                                                                                                                                              |                    |



|    |                                                                           |  |
|----|---------------------------------------------------------------------------|--|
| 16 | Copy of one work order/ contract commenced/ executed prior to 31/12/2021. |  |
| 17 | Any other document bidder likes to submit to prove its eligibility.       |  |

(Authorized Signatory)  
M/s

**Appendix-IV**

**CERTIFICATE OF PERFORMANCE**

(To be obtained from client (s) on their letter head in respect of each of the work order/ contract)

Name and Address of Client:-

Name of the vendor:-

| S<br>N | PERFORMANCE EVALUATION                                                                                                     | RESPONSE TO BE FILLED BY CLIENT |              |                |
|--------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------|----------------|
| 1      | Work executed by above vendor is related to                                                                                | Alarm system                    | CCTV System  |                |
| 2      | Nature of work                                                                                                             | New Installation                | AMC          | Both           |
| 3      | Please mention reference letter no./ Work order/ contract no.                                                              |                                 |              |                |
| 4      | Period of contract/ Actual Period of Services rendered.                                                                    |                                 |              |                |
| 5      | In how many locations/ branches/ offices work executed/ AMC provided.                                                      |                                 |              |                |
| 6      | <b>PARAMETERS</b>                                                                                                          | <b>TICK THE APROPRIATE</b>      |              |                |
| A      | Whether the equipments installed matches with the specifications offered by the client. ( Yes/ No)                         | Yes                             | No           |                |
| B      | Average time taken by the vendor in defect rectification after reporting of defect. (in number of days)                    | Less than 4                     | 4 to 7       | more than 7    |
| C      | Average time taken for installation of new equipment. ( in number of days).                                                | Less than 7                     | 8 to 15      | More than 15   |
| D      | Quality of Work                                                                                                            | Good                            | Satisfactory | Unsatisfactory |
| E      | Capabilities of the vendor                                                                                                 | Good                            | Satisfactory | Unsatisfactory |
| F      | Technical Proficiency                                                                                                      | Good                            | Satisfactory | Unsatisfactory |
| G      | Financial Soundness                                                                                                        | Good                            | Satisfactory | Unsatisfactory |
| H      | Mobilization of Manpower                                                                                                   | Good                            | Satisfactory | Unsatisfactory |
| I      | Quality of products installed                                                                                              | Good                            | Satisfactory | Unsatisfactory |
| 7      | If any penalty imposed on vendor ( Yes/ No)                                                                                | Yes                             |              | No             |
| 8      | If 'Yes' at above, then mention the number of instance(s) of imposition of penalty during the currency of contract / work. | Less than 3                     | Three        | More than 3    |
| 9      | Did the vendor go for Arbitration/ court case in case of any dispute in connection with the referred contract?             | Yes                             |              | No             |

Any other worth mention point client like to highlight on evaluation of performance of vendor.

Provide separate performance certificate against each work order/ contract submitted with eligibility bid, without submission of above duly filled format respective work order would not be considered for evaluation of eligibility of vendor.

Bank can confirm the legitimacy of this performance certificate from issuing office through own sources.



---

**Signature of Reporting Officer\* with Office Seal**

**Details of Officer**

**Name:**

**Designation:**

**Contact No:**

**Email Id:**

\*Reporting Officer should be In-charge looking after physical security measures of the institution, preferably Security Officer.

**Annexure- X1**

**Submission of Bid in response to Request for Proposal**

Ref:- -----

Date-----

**Zonal Manager,  
UCO Bank Zonal office  
Dharamshala,  
Security Department,  
Shyamnagar Dharamshala,  
Distt- Kangra (Himachal Pradesh)- 176215**

Sir,

1. We have carefully examined all the RFP Documents for supply & installation of DVR/XVR/NVR based CCTV / Integrated Alarm System (Fire and Burglary) in your Dharamshala zone & other locations and all the conditions stated in the instructions to Vendors, General Conditions of Contract, and Technical Specifications etc. as detailed in the RFP Documents.
2. We enclose the details as asked for in the format given in Annexure-I duly signed by us along with supporting documents.
3. We also agree that our Bid will remain valid for acceptance by the Bank for 120 days from the date of opening of Bid, and this period of validity can be extended for such period as may be mutually agreed between the Bank and us in writing. We also agree to keep the Draft/Pay Order towards earnest money. However, if we withdraw, you shall have the right to forfeit the Earnest money without reference to us. Should this Bid be accepted, we hereby agree to abide by and fulfill all the Terms and Conditions of the Bid and in default thereof authorize you to forfeit or pay to you or your successors, or assignees or nominees such sums of money as are stipulated in the conditions contained in the RFP together with the written acceptance of the Contract. We understand that you reserve the right to accept or reject any or all the Bids either in full or in part without assigning any reason thereof.
4. We enclose a list of Bank clients ( R.B.I. / Scheduled commercial Banks) in India (giving their full addresses), e-mail ids, telephone (landline and mobile), fax numbers, to whom models of equipment/s has/have been supplied by us during last three years as per the number indicated against each of them. (Ref. of orders received to be given)
5. We enclose details of patent, trademark, registered designs, intellectual property rights, industrial property rights, copy rights held by us regarding any part of the CCTV and STQC certificate.
6. We confirm that all the pages of the Bid document have been signed by the authorized signatory of the company. (Proof of authorization to be submitted)
7. We enclose a copy of document in support of year of establishment of our Company/ firm.



8. We enclose compliance of Technical Specifications as per Appendix-B to C  
Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2026

For and on behalf of

\_\_\_\_\_  
(with seal)

Signature \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Place:

**DULY SIGNED BY AUTHORISED SIGNATORY  
WITH SEAL**

**Annexure – X2**

**(Letter to the Bank on the vendor's letterhead)**

**Ref No:- .....**

**Date-----**

**Zonal Manager,  
UCO Bank Zonal office  
Dharamshala,  
Security Department,  
Shyamnagar Dharamshala,  
Distt- Kangra (Himachal Pradesh)- 176215**

Dear Sir,

Sub:Your RFP for\_\_\_\_\_

Ref No.

With reference to the above RFP, having examined and understood the instructions, terms and conditions forming part of the RFP, we hereby enclose our offer for the supply of ----- as detailed in system requirement and specification of your above referred RFP.

| Sl No. | Description of ----- | Make of the Item | Model No. | Part No |
|--------|----------------------|------------------|-----------|---------|
|        |                      |                  |           |         |
|        |                      |                  |           |         |
|        |                      |                  |           |         |
|        |                      |                  |           |         |
|        |                      |                  |           |         |
|        |                      |                  |           |         |
|        |                      |                  |           |         |

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred letter and enclosures.

We also understand that the Bank is not bound to accept the offer either in part or in full and that the Bank has right to reject the offer in full or in part without assigning any reasons whatsoever & without any cost or compensation therefor.

We enclose Demand Draft No./Pay Order no. ----- for Rs 10,000/- (Rupees thousand only) Favouring UCO Bank issued by ----- Bank, ----- Branch payable at New Delhi, towards Earnest Money Deposit.

Yours faithfully,

**Authorized Signatory  
(Name & Designation, seal of the firm)**

**Annexure – X3**

**Manufacturer's Authorization Form (MAF)**

No. \_\_\_\_\_

dated \_\_\_\_\_

**Zonal Manager,  
UCO Bank Zonal office  
Dharamshala,  
Security Department,  
Shyamnagar Dharamshala,  
Distt- Kangra (Himachal Pradesh)- 176215**

**Dear Sir,**

Subject: \_\_\_\_\_

Ref No. :

We \_\_\_\_\_ who are established and reputable manufactures of \_\_\_\_\_ having factories at \_\_\_\_\_ and \_\_\_\_\_ do hereby authorise M/s \_\_\_\_\_ (Name and address of Vendor /Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for RFP offer.

We hereby extend our full guarantee and warranty as per terms and conditions of the RFP and the contract for the equipment and services offered against this invitation for RFP offer by the above firm and confirm that back to back Spare & Skill Arrangement has been made with M/s \_\_\_\_\_ for providing support services to UCO Bank under this contract.

Yours faithfully,

Authorized Signatories  
(Name & Designation)  
Date:

For and on behalf of M/s \_\_\_\_\_  
(Name of manufactures)

Note:

1. This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.
2. Such MAF for all items offered for which the vendor is not an OEM, should be attached.

Date:

Place:

**Annexure – X4**

**Details of Service Centres / Franchisee arrangement & Qualified/Competent Support Staff available for support to UCO Bank:**

| Sl.No. | Location of service center |            | Contact person with address | Experience of Service Engineer and qualification | No. of year in service in the company | Telephone / Mobile No. |
|--------|----------------------------|------------|-----------------------------|--------------------------------------------------|---------------------------------------|------------------------|
|        | Owned                      | Franchisee |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |
|        |                            |            |                             |                                                  |                                       |                        |

**Authorized Signatory**  
**(Name & Designation, seal of the firm)**

**Date:**

**Annexure – X5**

**This letter is to be prepared by OEM of CCTV & Alarm System (both the Vendor to ensure for submission)**

**(To be submitted by OEM)**

No. \_\_\_\_\_

Date: \_\_\_\_\_

**Zonal Manager,  
UCO Bank Zonal office  
Dharamshala,  
Security Department,  
Shyamnagar Dharamshala,  
Distt- Kangra (Himachal Pradesh)- 176215**

Dear Sir,

Subject : \_\_\_\_\_

Ref. No. : \_\_\_\_\_

We \_\_\_\_\_ who are established and reputable manufactures of \_\_\_\_\_ having factories at \_\_\_\_\_ do hereby certify that all the components / parts / assembly / software used in the DVR/XVR/NVR CCTV Systems i.e. IP Camera, Monitor etc, are original with new components / parts / assembly / software and that no refurbished / duplicate / second hand components / parts / assembly / software are used or would be used.

We hereby extend our full guarantee and warranty as per terms and conditions of the RFP and services, offered against this invitation by us. We also confirm that back to back spare & skill arrangement has been made with for providing support services of UCO Bank under this contract.

Yours faithfully,

Authorized Signatories  
(Name & Designation)  
Date:

For and on behalf of M/s \_\_\_\_\_  
(Name of manufactures)

Note: This letter of authority should be on the letter head of OEM and should be signed by a competent person of the manufacturer.

Date:

---

**Annexure - X6**

**It is mandatory to submit with the Tender Documents:**

**UNDERTAKING AGAINST BLACKLISTING**

I / We further hereby declare that I / We have not been black-listed or otherwise debarred/ terminated by any Bank / Financial Institution / Central Government / State Government/any Central or State Undertaking or Corporation / Reserve Bank of India or any other Regulatory Authority or any other Statutory Authority as on date of the publication of this Tender / Procurement.

I also declare that all the information /Data /documents submitted by me is true & if at any point found false, Bank shall have the liberty to take any action which deem fit to re-compensate its loss at any point of time.

**Signature with Seal of Bidder**

Name of the Company

**Attested by Notary**

Date:

Seal & Signature

**APPENDIX – 'A'**

**VENDOR'S GENERAL INFORMATION**

**(Information required (Information to be filled by the Vendor))**

1. Name of the Vendor: \_\_\_\_\_
2. Year of commencement of business: \_\_\_\_\_
3. Whether ISO? : Yes / No \_\_\_\_\_  
If yes, details: \_\_\_\_\_
4. Constitution of the Vendor (Tick mark the applicable): Limited Company, Private Limited Company, Partnership, Sole Proprietorship or any other type \_\_\_\_\_
5. Vendor's Registered Address: \_\_\_\_\_
6. E-mail / Phone / Fax nos: E-mail: \_\_\_\_\_ Fax: \_\_\_\_\_  
: Phone Nos: \_\_\_\_\_
7. Details of authorized representative(s): \_\_\_\_\_
8. Name(s) and addresses of Director(s): \_\_\_\_\_
9. Whether registered with the Registrar of Companies/ Registrar of Firms?  
\_\_\_\_\_  
If so, mention number and date: \_\_\_\_\_
10. Whether Registered for GST purposes? \_\_\_\_\_  
If yes, mention number and date: \_\_\_\_\_  
(Attach copies of GST certificate).
11. Is the firm a Manufacturer / Dealer / Distributor of CCTV systems.  
(Attach authenticated copies): \_\_\_\_\_
13. Net Profit (Rupees. In lacs)  
During FY 2025-26: \_\_\_\_\_  
During FY 2024-25: \_\_\_\_\_  
During FY 2023-24: \_\_\_\_\_
14. Total Turnover (Rupees. In lacs)  
During FY 2025-26: \_\_\_\_\_  
During FY 2024-25: \_\_\_\_\_  
During FY 2023-24: \_\_\_\_\_
16. No. Of Service Centers: \_\_\_\_\_  
(Attach list of the Centers, their addresses, Contact person and Tele & Mobile Nos)
15. Purchase order & completion certificate:

---

**DECLARATION**

1. I / We have read the instructions appended on the Performa and I / We understand that if any false information is detected at a later date, any future contract made between ourselves and UCO Bank on the basis of the information given by me / us can be treated as invalid by the bank and I /we will be solely responsible for the consequences.
2. I / We agree that the decision of the UCO Bank in selection of Contractors will be final and binding on us.
3. All the information furnished by me hereunder is correct to the best of my knowledge and belief.
4. I / We agree that I / We have no objection if enquiries are made about the works listed by me / us in the accompanying sheets.
5. I / We understand that the amount of Earnest Money deposit shall be forfeited if I / We fail to accept the purchase order that may be awarded as L-I Vendor, or failure to carry out the obligations for installation of the CCTV/ Alarm System (strike of whatever is not applicable).

**Signature & Seal of the Vendor**

## Appendix- 'B'

### OEM Criteria

1. All products quoted and supplied to UCO Bank should be manufactured in India by the OEM directly not by third party and not from any other country - Document with BIS to be presented, and OEM name or India company name and India factory address registered in name of OEM to be presented as proof.
2. OEM should have a registered office in India and local service center in the State.
3. Product quoted should be UL, CE, FCC, Local BIS certified and product wise certificate to be provided by OEM and FIPS certified, Cyber essential and GDPR document to be provided.
4. Organization needs to be ISO 9001, 27001, 14001, certified for environment and cyber security reasons. STQC certification for the network cameras.
5. OEM needs to have local service team with local branch and service center so that bank can call anytime OEM for audit - OEM service center details required.
6. OEM should have 500+ employees directly in their payroll. - document proof to be provided.
7. OEM should be directly present in the state and not via any system integrator who is empanelled with the bank. OEM Documents for local presence to be submitted independently.
8. Product quoted for camera, DVR/NVR/XVR, should be of same Make for seamless integration and also should be able to integrate existing hardware with the bank.
9. OEM to provide local audit support anytime in region without any additional cost.
10. OEM to be registered with government body under National skill development or Manufacturing license of India in name of OEM so that bank can give preference to brands that are being manufactured in India.

**Signature & Seal of the Vendor**

---

**APPENDIX-'C'**

**OTHER MANDATORY REQUIREMENTS**

|   |                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | All imported products, e.g. Cameras, NVRs should carry quality certification i.e. STQC. (Copies to be enclosed) and all Cable and PVC conduit i.e. ISI Mark (Should be marked as Annexure-1) |
| 2 | Products should be from ISO certified Manufacturer & Supplier. (Copies to Be Enclosed) (Should be marked as Annexure-2)                                                                      |
| 3 | Copies of Back-To-Back Authorized Dealership Certificates to Be Enclosed (Should be marked as Annexure-3).                                                                                   |
| 4 | Local Address & Telephone Number of All Service Centers should be provided (Should be marked as Annexure-4).                                                                                 |
| 5 | Copies of ST / CST / VAT / Regn. No. (Should be marked as Annexure-6)                                                                                                                        |
| 6 | Copy of PAN No. Registration (Should be marked as Annexure-7)                                                                                                                                |
| 7 | Brochures / Technical Data Sheets of products offered (Should be marked as Annexure-8.1, 8.2, 8.3 etc).                                                                                      |

**Signature & Seal of the Vendor**

## **Appendix-D**

### **Performa for Performance Bank Guarantee**

**UCO Bank, Zonal office Dharamshala, Shyamnagar, Distt- Kangra  
(Himachal Pradesh)- 176215**

In consideration of UCO Bank (hereinafter called "the said Purchaser") having its office at **UCO Bank Zonal office Dharamshala, Security Department, Shyamnagar Dharamshala, Distt- Kangra (Himachal Pradesh)- 176215** having agreed to purchase/engage \_\_\_\_\_ from \_\_\_\_\_ having its office at \_\_\_\_\_ (hereinafter called "the said Supplier/Vendor/Contractor") under the terms and conditions of an Agreement dated \_\_\_\_\_ (hereinafter called "the said Agreement").

Towards the security for the due fulfillment of the terms and conditions contained in the said Agreement, it has been agreed by the said Vendor that they will provide a bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).

We \_\_\_\_\_ (indicate the name of the bank) (hereinafter referred to as "the Bank") at the request of \_\_\_\_\_ (Vendor) do hereby undertake and guarantee to pay to the Purchaser an amount not exceeding Rs. \_\_\_\_\_ (either in lump sum or in parts) against any loss or damage caused to or suffered or would be caused to or suffered by the Purchaser by reason of any breach by the said Vendor of any of the terms or conditions contained in the said Agreement. Unless repugnant to the context or meaning there of, expressions, Purchaser, Vendor, Bank shall mean and include their heirs, representatives, successors, executors, administrators, assigns, etc. as may be applicable,

1. The Bank does hereby undertakes to pay the amount(s) due and payable under the guarantee without any demur, merely on a demand from the Purchaser stating that the amount(s) claimed is/are due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Vendor of any of the terms or conditions contained in the said Agreement or by reason of the Vendor failure to perform its obligations under the said Agreement.

Any such demand made by the Purchaser on the Bank shall be conclusive as regards the amount(s) due and payable by the Bank under this guarantee, whether made in one go or in parts. However, Bank's liability under this guarantee shall in totality be restricted to an amount not exceeding Rs. \_\_\_\_\_, whether or not invoked or if invoked, in part or otherwise.

2. The Bank undertakes to pay the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Vendor or any suit or proceedings pending before any Court or Tribunal relating thereto. Thereby meaning that Bank's liability under the present guarantee shall be absolute and unequivocal in any circumstances what so ever, if called upon to pay by the Purchaser. However our liability shall not exceed in Rs. \_\_\_\_\_ (in words)

3. The Bank further agrees that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues and or

advances made by the Purchaser under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_, the Purchaser certifies in writing that the terms and conditions of the said Agreement have been fully and properly carried out by the said Vendor and accordingly the Purchaser discharges this guarantee, either in writing or by returning the Original Guarantee Bond or till its expiry whichever is earlier to the Bank.

4. The Bank before the release of the Bank Guarantee Bond in original by the purchaser and before the expiry of this guarantee, as per clause 3 of this Guarantee Bond, may renew this guarantee for the same period as was initially requested upon for this guarantee or for any shorter period, at the option of the purchaser, under intimation to the vendor.

5. The Bank further agrees with the Purchaser that the Purchaser shall have the fullest liberty without Bank's or Vendor consent and without affecting in any manner Bank's obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Vendor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Vendor and to forbear or enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of any such variation, or extension being granted to the said Vendor or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said Vendor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving the Bank, in any manner what so ever.

6. This guarantee will not be discharged during its currency due to the change in the constitution of either the Bank or the Purchaser or the Vendor, in any manner what so ever.

7. The Bank lastly undertakes not to revoke this guarantee during its currency or extensions there of, except with the previous consent of the Purchaser, in writing or otherwise than as is provided in this Guarantee.

8. The Bank also agrees that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as its principal debtor in first instance without proceeding against the said Vendor, and notwithstanding any security or other guarantees that the Purchaser may have in relation to or in relation to the Vendor liabilities from time to time, as this guarantee constitutes a separate, distinct and independent contract between the Bank and the Purchaser.

9. Any officer of the Purchaser of the rank of Senior Manager or above, duly authorized in this regard, shall be competent to issue demand/notice or to issue any appropriate instructions, as the circumstances may warrant, to the Bank under this Guarantee, which the Bank shall have to comply immediately and forthwith, without raising any dispute or question/s in regard there to, in any manner what so ever. Notwithstanding any thing contained here in above:

a) The liability of the Bank under the guarantee shall not exceed Rs. \_\_\_\_\_ (in words).

b) This Bank Guarantee shall be valid either till \_\_\_\_\_ or till the issue of a fresh Bank Guarantee to the Purchaser with a extended period in lieu thereof or till the Purchaser certifies in writing that the terms and conditions of the said Agreement have been fully and properly carried out by the said Vendor and accordingly the

Purchaser discharges this guarantee, in writing and by returning the Original Guarantee Bond to the Bank.

c) The bank before the release of the Guarantee Bond in Original by the purchaser and before the expiry of this guarantee may at its option renew this guarantee for the same period as was initially agreed upon for this guarantee or any shorter period, at the option of the purchaser, under intimation to the vendor.

d) The Bank is liable to consider any notice for invocation of Bank Guarantee as a default by the Supplier/Vendor/Contractor(s) and shall be under an obligation to pay to the Purchaser the entire amount of Guarantee or any part thereof under this Bank Guarantee only and only if the Purchaser serves upon the Bank a written claim or demand before the expiry of either the Bank Guarantee or any extended period/s under this Bank Guarantee, as the case may be.

Notwithstanding anything contained herein our liability under this Bank guarantee shall not exceed Rupees \_\_\_\_\_/- (Rupees \_\_\_\_\_ only)

This Bank guarantee shall be valid up to \_\_\_\_\_ and we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before.....

This guarantee will be returned to us as soon as the purpose for which it is issued is fulfilled.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ 2026.

**Signature**

**Name**

**Designation with Bank stamp**

---

**Appendix- 'E'**

**Maintenance Tasks For CCTV system/ Alarm System (Strike off whatever is not applicable) Under Warranty Period And Thereafter Under Annual Maintenance Contract**

- 1 During every quarterly visit and while attending the break-down calls, inspect the overall condition of the CCTV systems/ Alarm System, power back-up and wiring.
- 2 Test and check the system for proper functioning and diagnose any defects noticed during testing as reported by the Branch and/or Extension Counter.
- 3 Test the unit for overheating, if detected.
- 4 Check all components with other circuitry and components.
- 5 Check power and cables.
- 6 Check the entire wiring for loose connections, loose fittings, damage by rodents etc especially at floor crossings.
- 7 Replace the defective parts, if any, and deposit the replaced part(s) in front of the Bank official(s) (Non- repairable DVR will be taken under buy back).
- 8 Test the whole system and demonstrate the same to the Branch staff.
- 9 Remove any defects or complaints reported by the Branch/ Extension Counter.
- 10 Obtain signature of the Manager or any other Authorized Official of the Branch/ Extension Counter with Branch Seal and date on the Service Certificate clearly specifying the work done and parts replaced.
- 11 Spares and components of reputed Companies only should be used.
- 12 Wires used should be of recognized Companies and should conform to the ISI specifications on the same.
- 13 The Representative(s) of the Contractor will always produce their Identity Cards issued by the Firm to the Branch officials before commencing the work.

**The Vendor should undertake to: -**

**Depute technicians to pay quarterly statutory visits (4 per year) and also attend to all break down calls as and when required within the time limit mentioned hereinabove, for maintenance of CCTV Systems.**

- 1 The statutory visits will be made with at least 75 days but not more than 105 days gap between the two consecutive visits.
- 2 Depute technicians to repair faults arising due to and because of faulty, incorrect or incomplete maintenance work and also arising out of any other technical faults. No separate charges will be paid for such visits.
- 4 The Technicians will carry adequate and suitable tools, equipments, spares and other required materials for maintenance work.
- 5 The maintenance schedule will be as per details given herein

above.

- 6 (a) Four mandatory quarterly visit in one quarter to each branch (including ATM) and Office will be carried out. All ATMs or ATM CCTV will be the part of Branch. No separate AMC charges will be paid for ATM. ATM visit observation will be maintained in the Technician Visit Report. Non-compliance of 04 quarterly visit in a year will attract penalty ₹300 per left Branch in a quarter and its amount will be deducted from quarterly AMC Bill invoice. No excuses of non-visit of a branch/ office will be entertained except Bank related causes. Visiting technician will carry sufficient running spares parts (frequently defecting spare parts) like Camera, wiring, Panic switch, SMPS, Power Supply, BNC Connector, CMOS Battery etc. and immediately replace and rectify the problem of CCTV and Alarm System by taking permission of Branch Manager and Security Officer. In this regard technician will submit justification for the same Branch Manager and Security Officer. If any major part of the System has been defunct then immediately its approval to be taken from Zonal Office/ Security Department and within 2-3 days it will be replaced for functioning of the System.
- (b) Bank will not be responsible for any arrangement of stay/ travel of technician during their visit of Branches/ Offices.
- (c) Visiting technician will check the CCTV Remote viewing wiring and setting data in DVR etc and details endorse in Visit report. He will also check installed single IP Camera and its footage availability and to write in visit report.
- (d) Technician of Alarm System will ensure functioning of all Panic switches and sensors and all Fire smoke detectors.
- (e) Vendor will keep CCTV and Alarm System inventory data in Excel Sheet.
- 7 The fault repair calls will be attended immediately, but not later than 24 hours of receipt of intimation in our Branch
- 8 Contractor will maintain a complaint register at his office and each complaint will be given a serial number for easy management.
- 9 The Contractor will prepare a Servicing Memo in quadruplicate and will get the same signed by the Branch Manager/ Authorised Official on satisfactory completion of the work. One copy of the same will be handed over to the Branch immediately.
- 10 The Contractor will submit the following reports of all the Branches and Extension Counters to the Bank within 10 days of the end of each quarter.
- (i) Overall maintenance and defects status report of Branch for the quarter.
- (ii) Extract of the Complaint Register for the quarter.
- (iii) One copy of the Servicing Memo(s) duly signed by the Branch Manager/ Authorised Official with rubber stamp of the Branch.

**The Bank undertakes to-**

- 1 Instruct Branch where **CCTV Systems/ Alarm Systems (Strike off whatever is not applicable)** will be installed to allow the Contractor

- 
- to undertake maintenance work and extend all possible cooperation to the Technicians of the Contractor.
- 2 To monitor, control and supervise the quality of services being provided by the Contractor within a reasonable period.
  - 3 To ensure payment of quarterly visits (during the AMC period i.e. after completion of the defect liability period of one year) from Zonal Office within a reasonable period.
  - 4 To receive and scrutinize the reports submitted by the Contractor.
  - 5 To make available to the Contractor all details of timings, weekly offs, holidays etc of the Branches. Any changes made in between will also be informed.

**Seal & Signature of bidder**

**Annexure- I**

**FORMAT FOR SUBMITTING TECHNICAL BID (Please mark Yes / No Against each aspect of Compliance of Alarm system)**

Basic Technical Specification & compliance for Bidder

| SI | Technical Specification Compliance for Fire and Electronic intruder Alarm System(Component and Description of Specification)                                                        | Compliance Yes/No |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|    | <b><u>CONTROL PANEL</u></b>                                                                                                                                                         |                   |
| 1  | LCD based minimum 12+1 fully programmable zone control panel with built in GSM speech dialer with automatic arming and disarming with remote access through telephone/mobile phone. |                   |
| 2  | Microcontroller based                                                                                                                                                               |                   |
| 3  | Minimum 08 +1 zones                                                                                                                                                                 |                   |
| 4  | Inbuilt GSM based speech and SMS dial up                                                                                                                                            |                   |
| 5  | Minimum 08 zones programmable as delay, immediate, panic or fire                                                                                                                    |                   |
| 6  | One tamper zone                                                                                                                                                                     |                   |
| 7  | Separate remote key pad with 8X4 cm LCD display or more                                                                                                                             |                   |
| 8  | Separate zone for fire detection and provision for connection of fire alarm system                                                                                                  |                   |
| 9  | Separate main control station for connection terminals and power supply units                                                                                                       |                   |
| 10 | Automatic arming and disarming facility                                                                                                                                             |                   |
| 11 | Can be operated through mobile and telephone line                                                                                                                                   |                   |
| 12 | Electrical devises can also be switched on or off through remote key pad                                                                                                            |                   |
| 13 | Built in battery backup                                                                                                                                                             |                   |
| 14 | Zone omitting facility                                                                                                                                                              |                   |
| 15 | Silent arming and night mode arming                                                                                                                                                 |                   |
| 16 | Intrusion lock with time and date                                                                                                                                                   |                   |
| 17 | Power failure indication                                                                                                                                                            |                   |
| 18 | Blown fuse indication on LCD display on LED blinking on panel                                                                                                                       |                   |
| 19 | Multiple sounder output                                                                                                                                                             |                   |
| 20 | Distinct interrupted sounder output for fire alarm                                                                                                                                  |                   |
| 21 | Battery strength display with audio indication in case of low battery                                                                                                               |                   |
| 22 | GSM signal strength display                                                                                                                                                         |                   |
| 23 | Walk test mode                                                                                                                                                                      |                   |
| 24 | Individual zone status is indicated in display                                                                                                                                      |                   |
| 25 | Independent entry delay time 2 to 240 sec                                                                                                                                           |                   |
| 26 | Independent exit delay time 2 to 240 sec                                                                                                                                            |                   |
| 27 | Sounder time 2 to 20 minutes and multiple sounder outputs                                                                                                                           |                   |
| 28 | Speaker wire cut detection for all sensors and hooters and speakers                                                                                                                 |                   |
| 29 | Support combination of hooters and speakers                                                                                                                                         |                   |
| 30 | Battery backup for 36 hours                                                                                                                                                         |                   |

|            |                                                                                                                      |  |
|------------|----------------------------------------------------------------------------------------------------------------------|--|
| 31         | Automatic switch off to battery in case of AC power failure                                                          |  |
| 32         | Automatic battery charging once the AC power is restored                                                             |  |
| 33         | ERTL certified.                                                                                                      |  |
| <b>SI.</b> | <b><u>SMOKE SENSOR &amp; HEAT SENSOR</u></b>                                                                         |  |
| 1          | Automatic Drift compensation                                                                                         |  |
| 2          | Dust tolerant chamber provides optimum detection performance and minimal nuisance alarm between maintenance visit    |  |
| 3          | Multifunction handheld remote programming and test tool                                                              |  |
| 4          | Sensitivity remotely programmable                                                                                    |  |
| 5          | Digital addressing capability                                                                                        |  |
| 6          | Remotely implemented advance maintenance features                                                                    |  |
|            | Read and write last maintenance date                                                                                 |  |
|            | Read chamber contamination level                                                                                     |  |
|            | Read thermal element value alarm test                                                                                |  |
| 7          | Selectable blink/no blink LED option via hand held tool                                                              |  |
| 8          | Photoelectric multi-criteria photo-thermal with 58 degree C and 78 degree C fixed and rate of raise thermal detector |  |
| 9          | 8 to 30 VDC operating range enable operation in both fire and security system                                        |  |
| 10         | -30 to +70 degree C operating temperature range                                                                      |  |
| 11         | Multi-functional alarm – normal bio color LED indicator                                                              |  |
| 12         | EN 54 certified                                                                                                      |  |
| 13         | Make -                                                                                                               |  |

|              |                                                                                     |  |
|--------------|-------------------------------------------------------------------------------------|--|
| <b>SI.</b>   | <b><u>AUTOMATIC TELEPHONE DIALER &amp; BUILT IN VOICE &amp; SMS GSM DIALER</u></b>  |  |
| 1            | GSM speech & SMS dialer                                                             |  |
| 2            | Microcontroller base                                                                |  |
| 3            | 2 speech / voice messages                                                           |  |
| 4            | Separate intrusion & fire messages                                                  |  |
| 5            | Minimum 10 programmable phone numbers upto 12 digits for intrusion and fire message |  |
| 6            | 20 sec recording time for each message                                              |  |
| 7            | Alarm SMS with alarm type, zone number with time and date information               |  |
| 8            | System status SMS for arm and disarm                                                |  |
| 9            | Power status SMS for AC power on and off, low battery                               |  |
| 10           | User editable name and address for alarm SMS                                        |  |
| 11           | Message playback, telephone no. editing facility, long volatile memory              |  |
| 12           | Retention of programmed data in case of power failure                               |  |
| 13           | Highest priority for condition dialing and silent alarming                          |  |
| <b>SL NO</b> | <b>ELECTRICAL</b>                                                                   |  |

|               |                                                      |  |
|---------------|------------------------------------------------------|--|
| 1             | Quiescent current: 30 mA Max.                        |  |
| 2             | Quiescent current with backlit LCD: 90 mA Max.       |  |
| 3             | MAIN CONTROL STATION WITH ONE REMOTE KEY PAD         |  |
| 4             | Quiescent current: 300 mA                            |  |
| 5             | Quiescent current with backlit LCD: 360 mA           |  |
| 6             | Current with dialing: 530 mA Max.                    |  |
| 7             | Maximum sounder 1 current output : 1A                |  |
| 8             | Maximum sounder 2 current output : 1A                |  |
| 9             | Remote key pads : Up to three                        |  |
| 10            | Non-volatile Memory : Programming and Log            |  |
| 11            | Zone response time : <500ms                          |  |
| 12            | Zone Loop Resistance : <5k ohm for NORMALLY CLOSED   |  |
| 13            | Mains supply Voltage : 220+10%-15% 50Hz              |  |
| 14            | Total current Output: 2A at 220V AC or 4A at 220V AC |  |
| 15            | Battery Voltage : 12V DC                             |  |
| 16            | Battery type : SMF Rechargeable                      |  |
| 17            | Battery Recharge Voltage: 13.8V +/-0.2V DC           |  |
| 18            | ENVIRONMENTAL                                        |  |
| 19            | Operating Temperature: 0C to 45C                     |  |
| 20            | Storage Temperature: -20C to 60C                     |  |
| 21            | Maximum humidity: 95% non-condensing                 |  |
| <b>SI No.</b> | <b>MAGNETIC CONTACT SENSOR</b>                       |  |
| 1             | Operating Gap: 15MM min                              |  |
| 2             | Contact Rating: 10W, 12/24VDC, 0.5A                  |  |
| 3             | Contact O/P : Normally Closed                        |  |
| 4             | 4 wire temper loop                                   |  |

|               |                                                  |  |
|---------------|--------------------------------------------------|--|
| <b>SI No.</b> | <b>PIR SENSOR</b>                                |  |
| 1             | Dual Element Pyroelectric sensor                 |  |
| 2             | Latest Technology Digital Signal Processor (DSP) |  |
| 3             | Pet Immunity up to 25 kg.                        |  |
| 4             | Detection Range 15m                              |  |
| 5             | Detection angle 110°                             |  |
| 6             | Sealed optics                                    |  |
| 7             | Excellent RFI and EMI Immunity                   |  |
| 8             | Selectable Pulse Count                           |  |
| 9             | Walk Test                                        |  |
| 10            | Detection range: 15m, 110°                       |  |
| 11            | RFI Immunity: Ave. 20V/m (10~1000MHz)            |  |

|    |                                            |  |
|----|--------------------------------------------|--|
| 12 | Power Supply: 9 ~ 16V DC, 12V Typical      |  |
| 13 | Current Consumption: 20mA, 12V DC          |  |
| 14 | Alarm Output: NC/NO 30V DC, 0.2A max.      |  |
| 15 | Alarm Duration: 2 seconds                  |  |
| 16 | Pulse Count: Single/Double                 |  |
| 17 | Tamper Switch: Cover Open activation       |  |
| 18 | Operating Temperature: 0° to 50° Celsius   |  |
| 19 | Walk Test LED: Red, can disable            |  |
| 20 | Temperature: Automatic using               |  |
| 21 | Compensation: NTC thermostat               |  |
| 22 | Detection Speed: 0.3 to 1 m/s              |  |
| 23 | Reverse Polarity Protection: Through Diode |  |

| SI No. | PANIC SWITCH                         |  |
|--------|--------------------------------------|--|
| 1      | Automatic reset (no key required)    |  |
| 2      | Micro switch technology              |  |
| 3      | In-built tamper switch               |  |
| 4      | Contact O/P: NORMALLY CLOSED         |  |
| 5      | Technology: micro-switch with roller |  |
| 6      | Tamper Switch: installed             |  |

| SI No. | HOOTER                         |  |
|--------|--------------------------------|--|
| 1      | High power 130 db              |  |
| 2      | 4 wired (with tamper loop)     |  |
| 3      | Low current consumption        |  |
| 4      | Available in 12V DC and 24V DC |  |
| 5      | Available in multiple tones    |  |
| 6      | Weatherproof housing           |  |

| SLN | Additional and latest features will be preferred in Alarm Panel and sensors                                          |  |
|-----|----------------------------------------------------------------------------------------------------------------------|--|
| 1   | In-built TCP/IP CMS connectivity module capable of providing LAN / Cellular 4G Connectivity;                         |  |
| 2   | Compatibility with wireless devices,                                                                                 |  |
| 3   | On board PSTN Communicator with at least 8 programmable Mobile numbers & Zone wise prerecorded voice call /messaging |  |
| 4   | <b>Free Health Monitoring System and status</b>                                                                      |  |
| 5   | <b>GSM/GPRS Module</b> supporting all communication modules such as TCP/IP/4G/5G/Wi-Fi                               |  |
| 6   | <b>ARM &amp; DISARMING- External keypad, mobile app, SMS, software</b>                                               |  |
| 7   | Easily upgradeable, wired to wireless, IP, GSM. Does not need to change the panels                                   |  |
| 8   | <b>Arm &amp; DISARMING- by only whitelisted mobile numbers</b>                                                       |  |

**Annexure- B**

**2 MP FIXED LENS IP BULLET CAMERA**

| S/No | Feature                 | Specification (Make & Model)-----                                                                                                                                                                                                                                                                               | Compliance (Yes/No) |
|------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.   | Image Sensor            | 1/2.8"2MPPSCMOSImageSensor(0.9071centimeters)                                                                                                                                                                                                                                                                   |                     |
| 2.   | Effective Pixels        | 1920(H)×1080(V)                                                                                                                                                                                                                                                                                                 |                     |
| 3.   | Minimum Illumination    | 0.01lux@F2.0(Color,30IRE),0.001lux@F2.0(B/W,30IRE),0lux (IR on)                                                                                                                                                                                                                                                 |                     |
| 4.   | Angle Adjustment        | Pan:0°–360°,Tilt:0°–90°,Rotation:0°–360°                                                                                                                                                                                                                                                                        |                     |
| 5.   | Shutter Speed           | Auto/Manual1/3s–1/100,000s                                                                                                                                                                                                                                                                                      |                     |
| 6.   | White Balance           | Auto, Natural, Street lamp, Outdoor, Manual, Regional custom                                                                                                                                                                                                                                                    |                     |
| 7.   | RAM                     | 128 MB                                                                                                                                                                                                                                                                                                          |                     |
| 8.   | ROM                     | 128 MB                                                                                                                                                                                                                                                                                                          |                     |
| 9.   | DORI Distance           | 52.4m(Detect),21.0m(Observe),10.5m(Recognize),5.2m(Identify)                                                                                                                                                                                                                                                    |                     |
| 10.  | Gain Control(AGC)       | Auto/Manual                                                                                                                                                                                                                                                                                                     |                     |
| 11.  | Lens Type               | Fixed-focal                                                                                                                                                                                                                                                                                                     |                     |
| 12.  | Max. Aperture           | F2.0                                                                                                                                                                                                                                                                                                            |                     |
| 13.  | Lens Mount              | M12                                                                                                                                                                                                                                                                                                             |                     |
| 14.  | Close Focus Distance    | 0.9m                                                                                                                                                                                                                                                                                                            |                     |
| 15.  | Lens                    | 3.6mmfixedLens                                                                                                                                                                                                                                                                                                  |                     |
| 16.  | Video Compression       | Instastream,H.265,H.264,H.264H,H.264B,MJPEG(Onlysupportedbythesubstream)                                                                                                                                                                                                                                        |                     |
| 17.  | S/N Ratio               | >56dB                                                                                                                                                                                                                                                                                                           |                     |
| 18.  | IR Number               | 1IRLED                                                                                                                                                                                                                                                                                                          |                     |
| 19.  | IR                      | IRRangeof30Mtr.                                                                                                                                                                                                                                                                                                 |                     |
| 20.  | IR Control              | Auto, Manual                                                                                                                                                                                                                                                                                                    |                     |
| 21.  | Smart IR                | Support                                                                                                                                                                                                                                                                                                         |                     |
| 22.  | Angle of View           | H:86°,V:47°,D: 103°                                                                                                                                                                                                                                                                                             |                     |
| 23.  | Back Light Compensation | BLC/HLC/ DWDR                                                                                                                                                                                                                                                                                                   |                     |
| 24.  | Day/Night               | Auto(ICR)/Color/B/W                                                                                                                                                                                                                                                                                             |                     |
| 25.  | Iris Control            | Fixed                                                                                                                                                                                                                                                                                                           |                     |
| 26.  | Resolution              | 2MP(1920×1080),1.3MP(1280×960),720p(1280×720),D1(704×576/704×480),VGA(640×480),CIF(352×288/352× 240)                                                                                                                                                                                                            |                     |
| 27.  | Noise Reduction         | 3DNR                                                                                                                                                                                                                                                                                                            |                     |
| 28.  | Motion detection        | OFF/ON(4areas,rectangular)                                                                                                                                                                                                                                                                                      |                     |
| 29.  | Stream Capability       | Triple stream                                                                                                                                                                                                                                                                                                   |                     |
| 30.  | Frame Rate              | Mainstream:2MP(1920×1080)@1-25/30fps,1.3MP,720P@1-25/30fps<br>Substream1:720p(1280×720),D1(704×576)@1-25fps/(704×480)@1-30fps,VGA(640×480)@1-30fps,CIF(352×240)@1-30fps,(352×288)@1-25fps<br>Substream2:D1(704×576)@1-25fps/(704×480)@1-30fps,VGA(640×480)@1-30fps,CIF (352 × 240)@1-30fps/(352 × 288) @1-25fps |                     |
| 31.  | Smart search            | WorktogetherwithSmartNVRtoperformrefineintelligentsearch,eventextractionand merging to event videos                                                                                                                                                                                                             |                     |
| 32.  | Video format            | PAL/NTSC                                                                                                                                                                                                                                                                                                        |                     |

|     |                        |                                                                                                                                                                                           |  |  |
|-----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 33. | Privacy Mask           | 4areas                                                                                                                                                                                    |  |  |
| 34. | ROI                    | Support(4areas)                                                                                                                                                                           |  |  |
| 35. | OSD                    | Camera title, Date & Time                                                                                                                                                                 |  |  |
| 36. | Audio                  | Built-in Mic                                                                                                                                                                              |  |  |
| 37. | Audio Compression      | G.711a,G.711Mu,PCM,G.726,AAC                                                                                                                                                              |  |  |
| 38. | Bit Rate               | H.265:3kbps-6144kbps,H.264:8kbps-6144kbps                                                                                                                                                 |  |  |
| 39. | Bit Rate Control       | CBR/VBR                                                                                                                                                                                   |  |  |
| 40. | Human Body Detection   | Support the classification and accurate detection of human                                                                                                                                |  |  |
| 41. | Protocol               | SFTP,IPv6,IPv4,DNS,RTCP,NTP,RTP,HTTP,HTTPS,SNMPV3,TLSVersion1.2,TCP/IP,PPPoE,NFS,UDP,ICMP,IGMP,SSL,DHCP,SMTP,RTSPS,ONVIF(ProfileS,ProfileG,ProfileT),unicast, multicast                   |  |  |
| 42. | SDK and API            | Support                                                                                                                                                                                   |  |  |
| 43. | Ethernet               | RJ-45(10/100Base-T)                                                                                                                                                                       |  |  |
| 44. | Alarm Event            | Networkdisconnection,IPconflict,illegalaccess,Motiondetection,Videotampering,Audio detection, IMD (Intelligent motion detection), Security exception                                      |  |  |
| 45. | Cyber Security         | AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE,accountlockout,syslog,videoencryption,IP/MACfiltering,HTTPS,trustedupgrade, trusted boot |  |  |
| 46. | Mirror Function        | Support                                                                                                                                                                                   |  |  |
| 47. | User/Host              | 6(Totalbandwidth:36M)                                                                                                                                                                     |  |  |
| 48. | Image Rotation         | 0°/90°/180°/270°(Support90°/270°with2Mresolutionandlower)                                                                                                                                 |  |  |
| 49. | Browser                | IE, Chrome,Firefox                                                                                                                                                                        |  |  |
| 50. | Weather proof Standard | IP67                                                                                                                                                                                      |  |  |
| 51. | Certificates           | ISO9001:2015,ISO20000-1:2018,CE,FCCandRoHS,BIS,STQCApprovedcompliance report                                                                                                              |  |  |
| 52. | Power Source           | 12VDC/PoE(802.3af)                                                                                                                                                                        |  |  |
| 53. | Power Consumption      | Basic:1.3W(12VDC),1.6W(PoE);<br>Max.(H.265+intelligenceon+WDR+IRintensity):3.3W(12VDC),4.2W(PoE)                                                                                          |  |  |

| 2MP FIXED LENS IP DOME CAMERA |                        |                                                                                                                                                                                                                                                                                            |                     |
|-------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| S/no                          | Feature                | Specification (Make & Model)-----                                                                                                                                                                                                                                                          | Compliance (Yes/No) |
| 1.                            | Image Sensor           | 1/2.8"2MPPSCMOSImageSensor(0.9071centimeters)                                                                                                                                                                                                                                              |                     |
| 2.                            | Effective Pixels       | 1920(H)×1080(V)                                                                                                                                                                                                                                                                            |                     |
| 3.                            | Minimum Illumination   | 0.01lux@F2.0(Color,30IRE),0.001lux@F2.0(B/W,30IRE), 0lux(IR on)                                                                                                                                                                                                                            |                     |
| 4.                            | Angle Adjustment       | Pan:0°–360°,Tilt:0°–78°,Rotation:0°–360°                                                                                                                                                                                                                                                   |                     |
| 5.                            | Shutter Speed          | Auto/Manual1/3s–1/100,000s                                                                                                                                                                                                                                                                 |                     |
| 6.                            | White Balance          | Auto,Natural,Streetlamp,Outdoor,Manual,Regionalcstom                                                                                                                                                                                                                                       |                     |
| 7.                            | RAM                    | 128 MB                                                                                                                                                                                                                                                                                     |                     |
| 8.                            | ROM                    | 128 MB                                                                                                                                                                                                                                                                                     |                     |
| 9.                            | DORI Distance          | Lens3.6mm:52.4m(Detect),21.0m(Observe),10.5m(Recognize),5.2m(Identify) Lens 2.8mm: 45.5 m (Detect), 18.2 m (Observe), 9.1 m (Recognize), 4.6 m (Identify)                                                                                                                                  |                     |
| 10                            | Gain Control(AGC)      | Auto/Manual                                                                                                                                                                                                                                                                                |                     |
| 11                            | Lens Type              | Fixed-focal                                                                                                                                                                                                                                                                                |                     |
| 12                            | Max. Aperture          | F2.0                                                                                                                                                                                                                                                                                       |                     |
| 13                            | Lens Mount             | M12                                                                                                                                                                                                                                                                                        |                     |
| 14                            | Close Focus Distance   | 3.6mm:0.9m,2.8mm:0.6m                                                                                                                                                                                                                                                                      |                     |
| 15                            | Lens                   | 3.6mm(2.8mmoptional)                                                                                                                                                                                                                                                                       |                     |
| 16                            | Video Compression      | Instastream,H.265,H.264,H.264H,H.264B,MJPEG(Onlysupportedbythesubstream)                                                                                                                                                                                                                   |                     |
| 17                            | IR Number              | 1IRLED                                                                                                                                                                                                                                                                                     |                     |
| 18                            | IR                     | IRRangeof30Mtr.                                                                                                                                                                                                                                                                            |                     |
| 19                            | Smart IR               | Support                                                                                                                                                                                                                                                                                    |                     |
| 20                            | Day/Night              | Auto(ICR)/Color/B/W                                                                                                                                                                                                                                                                        |                     |
| 21                            | S/N Ratio              | >56Db                                                                                                                                                                                                                                                                                      |                     |
| 22                            | Angle of View          | 3.6mm:H:86°,V:47°,D: 103°<br>2.8mm:H:101°,V:54°,D:119°                                                                                                                                                                                                                                     |                     |
| 23                            | BackLight Compensation | BLC/HLC/ DWDR                                                                                                                                                                                                                                                                              |                     |
| 24                            | Stream Capability      | Triplestream                                                                                                                                                                                                                                                                               |                     |
| 25                            | Frame Rate             | Mainstream:2MP(1920×1080)@1–25/30fps<br>Substream1:720p(1280×720),D1(704×576)@1–25fps/(704×480)@1–30fps,VGA(640×480)@1–30fps,CIF(352×240)@1–30fps/(352×288)@1–25fps<br>Substream2:D1(704×576)@1–25fps/(704×480)@1–30fps,VGA(640×480)@1–30fps,CIF (352 × 240)@1–30fps/ (352 × 288) @1–25fps |                     |
| 26                            | Video format           | PAL/NTSC                                                                                                                                                                                                                                                                                   |                     |
| 27                            | Privacy Mask           | 4areas                                                                                                                                                                                                                                                                                     |                     |
| 28                            | Resolution             | 2MP(1920×1080),1.3MP (1280×960),720p(1280×720),D1(704×576/704×480),VGA (640×480),CIF(352×288/352× 240)                                                                                                                                                                                     |                     |
| 29                            | Noise Reduction        | 3DNR                                                                                                                                                                                                                                                                                       |                     |
| 30                            | Motion detection       | OFF/ON(4areas,rectangular)                                                                                                                                                                                                                                                                 |                     |
| 31                            | ROI                    | Support(4areas)                                                                                                                                                                                                                                                                            |                     |
| 32                            | OSD                    | CameraTitle,Date&Time                                                                                                                                                                                                                                                                      |                     |

|    |                        |                                                                                                                                                                                            |  |
|----|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 33 | Audio                  | Built-inMic                                                                                                                                                                                |  |
| 34 | Audio Compression      | G.711a,G.711Mu,PCM,G.726,AAC                                                                                                                                                               |  |
| 35 | Bit Rate               | H.265:3kbps-6144kbps,H.264:8kbps-6144kbps                                                                                                                                                  |  |
| 36 | Bit Rate Control       | CBR/VBR                                                                                                                                                                                    |  |
| 37 | Human Body Detection   | Supporttheclassificationandaccuratedetectionofhuman& MotorVehicle                                                                                                                          |  |
| 38 | Protocol               | SFTP,IPv6,IPv4,DNS,RTCP,NTP,RTP,HTTP,HTTPS,S NMPV3,TLSVersion1.2,TCP/IP,PPPoE, NFS,UDP,ICMP,IGMP,SSL,DHCP,SMTP,RTSPS,ONVIF(ProfileS,ProfileG,ProfileT),unicast, multicast                  |  |
| 39 | SDK and API            | Support                                                                                                                                                                                    |  |
| 40 | Iris Control           | Fixed                                                                                                                                                                                      |  |
| 41 | Ethernet               | RJ-45(10/100Base-T)                                                                                                                                                                        |  |
| 42 | Smart search           | WorktogetherwithSmartNVRtoperformrefineintelligentse arch,eventextractionand merging to event videos                                                                                       |  |
| 43 | Alarm Event            | Networkdisconnection,IPconflict,illegalaccess,Motiondet ection,Videotampering,Audio detection, IMD (Intelligent motion detection), Security exception                                      |  |
| 44 | Cyber Security         | AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE,accountlockout,syslog,videoencryption,IP/MACfil tering,HTTPS,trustedupgrade, Trusted boot |  |
| 45 | Mirror Function        | Support                                                                                                                                                                                    |  |
| 46 | IR Control             | Auto, Manual                                                                                                                                                                               |  |
| 47 | Image Rotation         | 0°/90°/180°/270°(Support90°/270°with2MPresolutionan dlower)                                                                                                                                |  |
| 48 | Certificates           | ISO9001:2015,ISO20000- 1:2018,CE,FCCandRoHS,BIS,STQCaprovedcomplan cereport                                                                                                                |  |
| 49 | Power Source           | 12VDC/PoE(802.3af)                                                                                                                                                                         |  |
| 50 | Power Consumption      | Basic:1.3W(12VDC),1.6W(PoE)<br>Max.(H.265+intelligenceon+WDR+IRintensity):3.3W(12 VDC),4.2W(PoE)                                                                                           |  |
| 51 | User/Host              | 6(Totalbandwidth:36M)                                                                                                                                                                      |  |
| 52 | Weather proof Standard | IP67                                                                                                                                                                                       |  |
| 53 | Browser                | IE,Chrome,Firefox                                                                                                                                                                          |  |

**2MP HD BULLET CAMERA**

| S/No. | Features                | Specification (Make & Model)-----                                                                                                                                                                                                | Compliance (Yes/No) |
|-------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1     | Image Sensor            | 2.4MP PS CMOS Image Sensor                                                                                                                                                                                                       |                     |
| 2     | Max. Resolution         | 1920 (H) × 1080 (V)                                                                                                                                                                                                              |                     |
| 3     | Minimum Illumination    | 0.02 lux@F2.0 (Color, 30 IRE), 0.002 lux@F2.0 (B/W, 30 IRE), 0 lux (IR on)                                                                                                                                                       |                     |
| 4     | Shutter Speed           | PAL: 1/25 s–1/100,000 s, NTSC: 1/30 s–1/100,000 s                                                                                                                                                                                |                     |
| 5     | Lens                    | 3.6mm (2.8mm and 6mm optional)                                                                                                                                                                                                   |                     |
| 6     | Angle Adjustment        | Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°                                                                                                                                                                                    |                     |
| 7     | S/N Ratio               | >65 dB                                                                                                                                                                                                                           |                     |
| 8     | Lens Type               | Fixed-focal                                                                                                                                                                                                                      |                     |
| 9     | Lens Mount              | M12                                                                                                                                                                                                                              |                     |
| 10    | Max. Aperture           | F2.0                                                                                                                                                                                                                             |                     |
| 11    | Angle of View           | 3.6 mm: H: 80°, V: 43°, D: 94°; 2.8 mm: H: 100°, V: 54°, D: 117°; 6 mm: H: 43°, V: 24°, D: 50°                                                                                                                                   |                     |
| 12    | Close Focus Distance    | 3.6 mm: 0.8 m; 2.8 mm: 0.5 m; 6 mm: 2.4 m                                                                                                                                                                                        |                     |
| 13    | DORI Distance           | 3.6mm– 55.0m (Detect), 22.0m (Observe), 11.0m (Recognize), 5.5m (Identify); 2.8mm– 44.7m (Detect), 17.9m (Observe), 8.9m (Recognize), 4.5m (Identify); 6mm– 102.9m (Detect), 41.1m (Observe), 20.6m (Recognize), 10.3 (Identify) |                     |
| 14    | Back Light Compensation | BLC/DWDR                                                                                                                                                                                                                         |                     |
| 15    | IR Number               | 2 (IR light)                                                                                                                                                                                                                     |                     |
| 16    | Iris Control            | Fixed                                                                                                                                                                                                                            |                     |
| 17    | White Balance           | Auto                                                                                                                                                                                                                             |                     |
| 18    | Video Output            | Video output choices of CVI/TVI/AHD/CVBS by one BNC port                                                                                                                                                                         |                     |
| 19    | Noise Reduction         | 2D DNR                                                                                                                                                                                                                           |                     |
| 20    | Gain Control(AGC)       | Auto                                                                                                                                                                                                                             |                     |
| 21    | Day/Night               | Auto(ICR)/Color/B/W                                                                                                                                                                                                              |                     |
| 22    | Resolution              | 1080p (1920 × 1080), 960H (960 × 576/960 × 480)                                                                                                                                                                                  |                     |
| 23    | Frame Rate              | CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps; CVBS: PAL: 960H NTSC: 960H                                                                      |                     |
| 24    | IR Mode                 | Smart IR                                                                                                                                                                                                                         |                     |
| 25    | IR                      | IR Range of 30 Mtr.                                                                                                                                                                                                              |                     |
| 26    | IR Control              | Auto/ Manual                                                                                                                                                                                                                     |                     |
| 27    | Weatherproof Standard   | IP67                                                                                                                                                                                                                             |                     |
| 28    | Casing                  | Plastic                                                                                                                                                                                                                          |                     |
| 29    | Operating Temperature   | -40°C ~ +60°C (-40°F ~ +140°F)                                                                                                                                                                                                   |                     |
| 30    | Operating Humidity      | <95% (RH), non-condensing                                                                                                                                                                                                        |                     |
| 31    | Storage Temperature     | -40 °C to +60 °C (-40 °F to +140 °F)                                                                                                                                                                                             |                     |
| 32    | Storage Humidity        | <95% (RH), non-condensing                                                                                                                                                                                                        |                     |
| 33    | Power Source            | 12V DC ±30%                                                                                                                                                                                                                      |                     |
| 34    | Power Consumption       | Max. 2.8 W (12 VDC, IR on)                                                                                                                                                                                                       |                     |
| 35    | Dimension               | 146.1 mm × 70.0 mm × 69.8 mm                                                                                                                                                                                                     |                     |
| 36    | Weight                  | 0.15 Kg.                                                                                                                                                                                                                         |                     |

2MP HD DOME CAMERA

| S/No. | Features                | Specification (Make & Model)-----<br>--                                                                                                                     | Compliance<br>(Yes/No) |
|-------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1     | Image Sensor            | 2.4MP PS CMOS Image Sensor                                                                                                                                  |                        |
| 2     | Minimum Illumination    | 0.02 lux@F2.0 (Color, 30 IRE), 0.002 lux@F2.0 (B/W, 30 IRE), 0 lux (IR on)                                                                                  |                        |
| 3     | Max. Resolution         | 1920 (H) × 1080 (V)                                                                                                                                         |                        |
| 4     | Shutter Speed           | PAL: 1/25 s–1/100000 s, NTSC: 1/30 s–1/100000 s                                                                                                             |                        |
| 5     | Angle Adjustment        | Pan: 0°–360°, Tilt: 0°–78°, Rotation: 0°–360°                                                                                                               |                        |
| 6     | White Balance           | Auto                                                                                                                                                        |                        |
| 7     | Max. Aperture           | F2.0                                                                                                                                                        |                        |
| 8     | Lens Mount              | M12                                                                                                                                                         |                        |
| 9     | Close Focus Distance    | 3.6 mm: 0.8 m, 2.8 mm: 0.5 m                                                                                                                                |                        |
| 10    | DORI Distance           | Lens 3.6 mm: Detect-55.0 m, Observe-22.0 m, Recognize - 11.0 m, Identify-5.5 m; Lens 2.8 mm: Detect-44.7 m, Observe-17.9 m, Recognize-8.9 m, Identify-4.5 m |                        |
| 11    | Lens Type               | Fixed-focal                                                                                                                                                 |                        |
| 12    | Gain Control(AGC)       | Auto                                                                                                                                                        |                        |
| 13    | Lens                    | 3.6mm (2.8mm optional)                                                                                                                                      |                        |
| 14    | Angle of View           | 3.6 mm: H: 80°, V: 43°, D: 94°; 2.8 mm: H: 100°, V: 54°, D: 117°                                                                                            |                        |
| 15    | S/N Ratio               | >65 dB                                                                                                                                                      |                        |
| 16    | Back Light Compensation | BLC/ DWDR                                                                                                                                                   |                        |
| 17    | Resolution              | 1080p (1920 × 1080), 960H (960 × 576/ 960 × 480)                                                                                                            |                        |
| 18    | Frame Rate              | CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps; CVBS: PAL: 960H NTSC: 960H |                        |
| 19    | Noise Reduction         | 2D DNRS                                                                                                                                                     |                        |
| 20    | Day/Night               | Auto(ICR)/Color/B/W                                                                                                                                         |                        |
| 21    | IR Control              | Auto, Manual                                                                                                                                                |                        |
| 22    | IR                      | IR Range of 30 Mtr.                                                                                                                                         |                        |
| 23    | IR Number               | 1 IR light                                                                                                                                                  |                        |
| 24    | IR Mode                 | Smart IR                                                                                                                                                    |                        |
| 25    | Video Output            | Video output choices of CVI/TVI/AHD/CVBS by one BNC port                                                                                                    |                        |
| 26    | Power Source            | 12 VDC ± 30%                                                                                                                                                |                        |
| 27    | Power Consumption       | Max 2.3 W (12 VDC, IR on)                                                                                                                                   |                        |
| 28    | Operating Temperature   | –40 °C to +60 °C (–40 °F to +140 °F)                                                                                                                        |                        |
| 29    | Operating Humidity      | <95% (RH), non-condensing                                                                                                                                   |                        |
| 30    | Storage Temperature     | –40 °C to +60 °C (–40 °F to +140 °F)                                                                                                                        |                        |
| 31    | Storage Humidity        | <95% (RH), non-condensing                                                                                                                                   |                        |
| 32    | Casing                  | Plastic                                                                                                                                                     |                        |
| 33    | Dimension               | 85.0 mm × 77.1 mm                                                                                                                                           |                        |
| 34    | Iris Control            | Fixed                                                                                                                                                       |                        |
| 35    | Weight                  | 0.11kg.                                                                                                                                                     |                        |

| 2MP IP FIXED LENS CAMERA WITH SD CARD |                         |                                                                                                                                         |                     |
|---------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| S/no                                  | Feature                 | Specification (Make & Model)-----                                                                                                       | Compliance (Yes/No) |
| 1.                                    | ImageSensor             | 1/2.7"2MPPSCMOSImageSensor(0.9407Centimeters)                                                                                           |                     |
| 2.                                    | EffectivePixels         | 1920(H)×1080(V)                                                                                                                         |                     |
| 3.                                    | MinimumIllumination     | 0.001lux@F1.4(Color,30IRE),0.0001lux@F1.4(B/W,30IRE),0lux(IR on)                                                                        |                     |
| 4.                                    | ShutterSpeed            | Auto/Manual1/3s–1/100,000s                                                                                                              |                     |
| 5.                                    | AngleAdjustment         | Pan:0°–355°,Tilt:0°–65°,Rotation:0°–355°                                                                                                |                     |
| 6.                                    | WhiteBalance            | Auto,Natural,Streetlamp,Outdoor,Manual,Regionalcustom                                                                                   |                     |
| 7.                                    | RAM                     | 128 MB                                                                                                                                  |                     |
| 8.                                    | ROM                     | <b>128 MB</b>                                                                                                                           |                     |
| 9.                                    | DORIDistance            | 3.6mm:55.7m(Detect),22.3m(Observe),11.1m(Recognize),5.6m(Identify)<br>2.8mm:44.0m(Detect),17.6m(Observe),8.8m(Recognize),4.4m(Identify) |                     |
| 10                                    | GainControl(AGC)        | Auto/Manual                                                                                                                             |                     |
| 11                                    | LensType                | Fixed-focal                                                                                                                             |                     |
| 12                                    | Max.Aperture            | <b>F1.4</b>                                                                                                                             |                     |
| 13                                    | LensMount               | M12                                                                                                                                     |                     |
|                                       | CloseFocusDistance      | 3.6mm:1.1m;2.8mm:0.7m                                                                                                                   |                     |
|                                       | Lens                    | 3.6mm(2.8mmOptional)                                                                                                                    |                     |
|                                       | Angleof View            | 3.6mm:H:87°;V:44°;D:105°                                                                                                                |                     |
|                                       | IrisControl             | Fixed                                                                                                                                   |                     |
|                                       | S/NRatio                | >58dB                                                                                                                                   |                     |
|                                       | IRNumber                | 3IRLED,4WarmLight                                                                                                                       |                     |
|                                       | IR                      | IRRangeof50Mtr.                                                                                                                         |                     |
|                                       | WarmLight               | WarmLightRangeof30Mtr.                                                                                                                  |                     |
| 14                                    | Smart Illumination      | Support                                                                                                                                 |                     |
| 15                                    | VideoCompression        | Instastream,H.265,H.264,H.264H,H.264B,MJPEG(Onlysupportedbysubstream)                                                                   |                     |
| 16                                    | BackLight Compensation  | BLC/HLC/WDR(120dB)                                                                                                                      |                     |
| 17                                    | Day/Night               | Auto(ICR)/Color/B/W                                                                                                                     |                     |
| 18                                    | IRControl               | Auto,Manual                                                                                                                             |                     |
| 19                                    | Resolution              | 2MP(1920×1080),1.3MP(1280×960),720p(1280×720),D1(704×576/704×480),VGA(640×480),CIF(352×288/352×240)                                     |                     |
| 20                                    | NoiseReduction          | <b>3DNR</b>                                                                                                                             |                     |
| 21                                    | Motiondetection         | OFF/ON(4areas,rectangular)                                                                                                              |                     |
| 22                                    | PrivacyMask             | 4areas                                                                                                                                  |                     |
| 23                                    | Videoformat             | PAL/NTSC                                                                                                                                |                     |
| 24                                    | IVS(PerimeterProtection | Tripwire,Intrusion,IMD(Intelligentmotiondetection)                                                                                      |                     |

|    |                          |                                                                                                                                                                                                                                                                                |  |
|----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    | )                        |                                                                                                                                                                                                                                                                                |  |
| 25 | StreamCapability         | QuadStream                                                                                                                                                                                                                                                                     |  |
| 26 | FrameRate                | Mainstream:2MP<br>(1920×1080)@1–<br>25/30fps Sub<br>stream 1:<br>720P@1–<br>25/30fps<br>Substream2:D1@1–25/30fps Sub stream 3: D1@1fps                                                                                                                                         |  |
| 27 | OSD                      | Cameratitle,Date&Time                                                                                                                                                                                                                                                          |  |
| 28 | AudioInput               | 1Channel(RCAport)                                                                                                                                                                                                                                                              |  |
| 29 | AudioOutput              | 1Channel(RCAport)                                                                                                                                                                                                                                                              |  |
| 30 | AudioCompression         | G.711a,G.711Mu,G.726,PCM,AAC                                                                                                                                                                                                                                                   |  |
| 31 | ImageRotation            | 0°/90°/180°/270°(Support90°with2Mresolutionandlower)                                                                                                                                                                                                                           |  |
| 32 | Bit Rate                 | H.265:3kbps-6144kbps,H.264:8kbps-6144kbps                                                                                                                                                                                                                                      |  |
| 33 | BitRateControl           | CBR/VBR                                                                                                                                                                                                                                                                        |  |
| 34 | Protocol                 | SFTP,IPv6,IPv4,DNS,RTCP,NTP,RTP,HTTP,HTTPS,SNMPV3,TLS<br>Version1.2,TCP/IP,PPPoE,<br>NFS,UDP,ICMP,IGMP,SSL,DHCP,RTMP,SMTP,RTSPS,ONVIF(Pr<br>ofileS,ProfileG,ProfileT), unicast,multicast                                                                                       |  |
| 35 | Ethernet                 | RJ-45(10/100Base-T)                                                                                                                                                                                                                                                            |  |
| 36 | SDKandAPI                | Support                                                                                                                                                                                                                                                                        |  |
| 37 | AlarmEvent               | No SD card, SD card full, SD card error, Network<br>disconnection, IP conflict, illegal access,<br>Motion detection, Video tampering, Tripwire, Intrusion,<br>Audio detection, Voltage detection,<br>External alarm, IMD (Intelligent motion detection),<br>Security exception |  |
| 38 | User/Host                | 6 (Total bandwidth: 36 M)                                                                                                                                                                                                                                                      |  |
| 39 | MirrorFunction           | Support                                                                                                                                                                                                                                                                        |  |
| 40 | Audio                    | Built-in Mic                                                                                                                                                                                                                                                                   |  |
| 41 | SmartIR                  | Smart IR Support                                                                                                                                                                                                                                                               |  |
| 42 | Alarm IN                 | 1 Channel in: 5 mA 3–5 VDC                                                                                                                                                                                                                                                     |  |
| 43 | AlarmOut                 | 1 Channel out: 300 mA 12 VDC                                                                                                                                                                                                                                                   |  |
| 44 | CyberSecurity            | AES 256-bit Encryption, Configuration encryption,<br>trusted execution, Digest, security logs,<br>WSSE, account lockout, syslog, video encryption,<br>IP/MAC filtering, HTTPS, trusted upgrade,<br>trusted boot                                                                |  |
| 45 | HardwareResetPoint       | Support                                                                                                                                                                                                                                                                        |  |
| 46 | Certificates             | ISO 9001: 2015, ISO 20000-1 : 2018, CE, FCC and<br>RoHS, BIS, STQC approved compliance report                                                                                                                                                                                  |  |
| 47 | PowerSource              | 12 VDC/PoE (802.3af)                                                                                                                                                                                                                                                           |  |
| 48 | DualPowerBackup          | When the power adapter and PoE provide power at the<br>same time, disconnect one of them.<br>The device will continue to work, but will not restart                                                                                                                            |  |
| 49 | PowerConsumption         | Basic: 2.1 W (12 VDC), 2.6 W (PoE);<br>Max.: 6.2 W (12 VDC), 7.5 W (PoE) (H.265 +<br>intelligence on+ WDR + illuminator intensity)                                                                                                                                             |  |
| 50 | Browser                  | IE: IE11, Chrome, Firefox                                                                                                                                                                                                                                                      |  |
| 51 | Storage                  | SFTP, Mirco SD card (Max. 512GB)                                                                                                                                                                                                                                               |  |
| 52 | WeatherproofStandar<br>d | IP67 & IK10                                                                                                                                                                                                                                                                    |  |

|    |                       |                                      |  |
|----|-----------------------|--------------------------------------|--|
| 53 | Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |  |
| 54 | Operating Humidity    | ≤95% (RH), non-condensing            |  |
| 55 | Storage Temperature   | -40 °C to +60 °C (-40 °F to +140 °F) |  |
| 56 | Storage Humidity      | ≤95% (RH), non-condensing            |  |
| 57 | Casing                | Metal                                |  |
| 58 | Dimension             | 81.0 mm × 109.9 mm                   |  |
| 59 | Weight                | 350g                                 |  |

| 4 MP Network IR Vandal Dome Camera-50Mtr. |                         |                                                                                                                                                                                                 |                     |
|-------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| S/No.                                     | Features                | Specification (Make & Model)-----                                                                                                                                                               | Compliance (Yes/No) |
| 1                                         | Image Sensor            | 1/2.7" 4MP PS CMOS Image Sensor (0.9407 Centimeters)                                                                                                                                            |                     |
| 2                                         | Effective Pixels        | 2960 (H) × 1668 (V)                                                                                                                                                                             |                     |
| 3                                         | Minimum Illumination    | 0.001 lux@F1.4 (Color, 30 IRE), 0.0001 lux@F1.4 (B/W, 30 IRE), 0 lux (IR on)                                                                                                                    |                     |
| 4                                         | Angle Adjustment        | Pan: 0°-355°, Tilt: 0°-75°, Rotation: 0°-355°                                                                                                                                                   |                     |
| 5                                         | Shutter Speed           | Auto/Manual 1/3 s-1/100,000 s                                                                                                                                                                   |                     |
| 6                                         | ROM                     | 128 MB                                                                                                                                                                                          |                     |
| 7                                         | RAM                     | 256 MB                                                                                                                                                                                          |                     |
| 8                                         | White Balance           | Auto, Natural, Street lamp, Outdoor, Manual, Regional custom                                                                                                                                    |                     |
| 9                                         | Lens                    | 2.7 mm~13.5 mm                                                                                                                                                                                  |                     |
| 10                                        | Max. Aperture           | F1.4                                                                                                                                                                                            |                     |
| 11                                        | Close Focus Distance    | 0.8 m                                                                                                                                                                                           |                     |
| 12                                        | Lens Mount              | M14                                                                                                                                                                                             |                     |
| 13                                        | DORI Distance           | Lens W: 64.0 m (Detect), 25.6 m (Observe), 12.8 m (Recognize), 6.4 m (Identify)<br>Lens T: 210.0 m (Detect), 84.0 m (Observe), 42.0 m (Recognize), 21.0 m (Identify)                            |                     |
| 14                                        | Lens Type               | Motorized Vari-focal                                                                                                                                                                            |                     |
| 15                                        | Gain Control(AGC)       | Auto, Manual                                                                                                                                                                                    |                     |
| 16                                        | IR Control              | Auto, Manual                                                                                                                                                                                    |                     |
| 17                                        | IR Number               | 2 IR LED                                                                                                                                                                                        |                     |
| 18                                        | IR                      | IR Range of 50 Mtr.                                                                                                                                                                             |                     |
| 19                                        | Audio                   | Built-in Mic                                                                                                                                                                                    |                     |
| 20                                        | Back Light Compensation | BLC/ HLC/ WDR(120dB)                                                                                                                                                                            |                     |
| 21                                        | Angle of View           | H: 113°-31°, V: 58°-18°, D: 138°-36°                                                                                                                                                            |                     |
| 22                                        | S/N Ratio               | >56dB                                                                                                                                                                                           |                     |
| 23                                        | Day/Night               | Auto(ICR)/Color/B/W                                                                                                                                                                             |                     |
| 24                                        | OTA (Over-The-Air)      | Support                                                                                                                                                                                         |                     |
| 25                                        | Resolution              | 4MP (2688 x 1520), 3MP (2048 x 1536), (2304 x 1296), 1080p (1920 x 1080), 1.3MP (1280 x 960), 720p (1280 x 720), D1 (704 x 576/ 704 x 480), VGA (640 x 480), CIF(352 x 288/ 352 x 240)          |                     |
| 26                                        | Stream Capability       | Quad Stream                                                                                                                                                                                     |                     |
| 27                                        | Frame Rate              | Main stream: 4MP (2688 x 1520)@1-25/30fps, 3MP (2048 x 1536)@1-25/30fps, (2304 x 1296)@1-25/30fps, 1080p (1920 x 1080)@1-25/30fps, 1.3MP (1280 x 960)@ 1-25/30fps, 720p (1280 x 720)@1-25/30fps |                     |

|    |                             |                                                                                                                                                                                                                                                                                                                                                    |
|----|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                             | Sub stream1: D1 (704 x 576/ 704 x 480)@1-25/30fps, VGA (640 x 480)@ 1-25/30fps, CIF(352 x 288/ 352 x 240)@1-25/30fps<br>Sub stream 2: D1 (704 x 576/ 704 x 480)@1-25/30fps, VGA (640 x 480)@1-25/30fps, CIF(352 x 288/ 352 x 240)@1-25/30fps<br>Sub stream 3: D1 (704 x 576/ 704 x 480)@1fps, VGA(640 x 480)@1FPS, CIF (352 x 288/ 352 x 240)@1fps |
| 28 | Video Compression           | Instastream, H.265, H.264, H.264H, H.264B, MJPEG (Only supported by the sub stream)                                                                                                                                                                                                                                                                |
| 29 | Smart search                | Work together with AI NVR to perform refine AI search, event extraction and merging to event videos                                                                                                                                                                                                                                                |
| 30 | Mirror Function             | Support                                                                                                                                                                                                                                                                                                                                            |
| 31 | Iris Control                | Fixed                                                                                                                                                                                                                                                                                                                                              |
| 32 | Noise Reduction             | 2D NR, 3D NR                                                                                                                                                                                                                                                                                                                                       |
| 33 | Motion detection            | OFF/ON (4 areas, rectangular)                                                                                                                                                                                                                                                                                                                      |
| 34 | IVS(Perimeter Protection)   | Intrusion, Tripwire (the two functions support the classification and accurate detection of vehicle and human)                                                                                                                                                                                                                                     |
| 35 | Video format                | PAL/NTSC                                                                                                                                                                                                                                                                                                                                           |
| 36 | Privacy Mask                | 4 areas                                                                                                                                                                                                                                                                                                                                            |
| 37 | ROI                         | Support (4 areas)                                                                                                                                                                                                                                                                                                                                  |
| 38 | OSD                         | Camera title, Date & Time, Channel Title, Time Title, Location, Font Properties, Custom Title                                                                                                                                                                                                                                                      |
| 39 | Bit Rate Control            | CBR/VBR                                                                                                                                                                                                                                                                                                                                            |
| 40 | Bit Rate                    | H.265: 3 kbps-8192 kbps, H.264: 3 kbps-8192 kbps                                                                                                                                                                                                                                                                                                   |
| 41 | Protocol Device Search Tool | SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, RTMP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, UPnP, ICMP, SSL, DHCP, SMTP, RTSPS, InstaOn, ONVIF (Profile S, Profile G, Profile T), unicast, multicast IP finder                                                                                                                    |
| 42 | Audio Compression           | G.711a, G.711Mu, G.726, PCM, AAC                                                                                                                                                                                                                                                                                                                   |
| 43 | SDK and API                 | Support                                                                                                                                                                                                                                                                                                                                            |
| 44 | Ethernet                    | RJ-45 (10/100 Base-T)                                                                                                                                                                                                                                                                                                                              |
| 45 | Alarm Event                 | No SD card, SD card full, SD card error, Network disconnection, IP conflict, illegal access, Motion detection, Video tampering, Tripwire, Intrusion, Audio detection, Voltage detection, Defocus detection, External alarm, IMD (Intelligent motion detection), Security exception                                                                 |
| 46 | Cyber Security              | AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot                                                                                                                                                |
| 47 | Audio Input                 | 1 Channel (RCA port)                                                                                                                                                                                                                                                                                                                               |
| 48 | Audio Output                | 1 Channel (RCA port)                                                                                                                                                                                                                                                                                                                               |
| 49 | Alarm IN                    | 1 Channel in: 5 mA 3-5 VDC                                                                                                                                                                                                                                                                                                                         |
| 50 | Alarm Out                   | 1 Channel out: 300 mA 12 VDC                                                                                                                                                                                                                                                                                                                       |
| 51 | Image Rotation              | 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)                                                                                                                                                                                                                                                                          |
| 52 | User/Host                   | 6 (Total bandwidth: 48 M)                                                                                                                                                                                                                                                                                                                          |
| 53 | Browser                     | IE, Chrome, Firefox                                                                                                                                                                                                                                                                                                                                |
| 54 | Storage                     | SFTP, NAS, Micro SD card (Max. 512GB)                                                                                                                                                                                                                                                                                                              |
| 55 | Power Source                | 12 VDC/PoE (802.3af)                                                                                                                                                                                                                                                                                                                               |
| 56 | Power Consumption           | Basic: 2.4 W (12 VDC), 3 W (PoE)<br>Max. (H.265+ max. resolution + max. stream+ WDR +                                                                                                                                                                                                                                                              |

|    |                       |                                                  |
|----|-----------------------|--------------------------------------------------|
|    |                       | IR intensity + IVS): 6.2 W (12 VDC), 7.4 W (PoE) |
| 57 | Operating Temperature | -30°C to +60°C                                   |
| 58 | Operating Humidity    | ≤95%                                             |
| 59 | Storage Temperature   | -40°C to +60°C (-40°F to +140°F)                 |
| 60 | Casing                | Metal                                            |
| 61 | Dimension             | 93.4 mm × Φ122 mm                                |
| 62 | Weight                | 510g                                             |

#### Pinhole Camera

This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001

Products quoted should be of international repute & from any of Top global OEM as per latest IHS report .

All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

| Sr No | Feature                 | specification                                                                                    | Compliance Yes/No |
|-------|-------------------------|--------------------------------------------------------------------------------------------------|-------------------|
| 1     | Image Sensor            | 1/3" CMOS /CCD                                                                                   |                   |
| 2     | Effective pixels        | 1920(H)x1080(V))                                                                                 |                   |
| 3     | Resolution              | 1920(H)x1080(V))                                                                                 |                   |
| 5     |                         | Color: 0.004LuxLux/F2.4 Black & White: 0.0004 Lux/F2.4                                           |                   |
| 6     | S/N ratio               | 52 dB                                                                                            |                   |
| 7     | Electronic shutter      | 1/3s-1/100000s                                                                                   |                   |
| 8     | Lens                    | 3.7mm Pin Hole (2.8mm optional)                                                                  |                   |
| 9     | WDR                     | 120 db WDR ( DWDR not acceptable)                                                                |                   |
| 10    | BLC                     | On/Off ( Auto)                                                                                   |                   |
| 11    | Motion detection        | Yes                                                                                              |                   |
| 12    | White balance           | Supported                                                                                        |                   |
| 13    | AGC                     | Supported                                                                                        |                   |
| 14    | Day & Night             | Color/B/W/Auto level adjust                                                                      |                   |
| 15    | Communication Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                    |                   |
| 16    | Power supply            | DC12V                                                                                            |                   |
| 17    | Power consumption       | 5 Watts max                                                                                      |                   |
| 18    | Certification           | UL/BIS,CE,FCC                                                                                    |                   |
| 19    | Perimeter Protection    | Line crossing, intrusion. Support alarm triggering by specified target types (human and vehicle) |                   |
| 20    | Built-in Microphone     | Supported                                                                                        |                   |
| 21    | Built-in Speaker        | Supported                                                                                        |                   |
| 22    | HLC                     | Supported                                                                                        |                   |

|    |          |            |  |
|----|----------|------------|--|
| 23 | IR Range | Up to 10 m |  |
|----|----------|------------|--|

| HD DVR 08/16/32 Channel 04 SATA |                                   |                                                                                                                                      |                              |                              |                              |
|---------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| S.N                             | Parameter                         | Specification                                                                                                                        | Compliance for 32 CH- Yes/No | Compliance for 16 CH- Yes/No | Compliance for 16 CH- Yes/No |
| 1                               | Compatibility                     | Analog cameras (mandatory), AHD, CVI, TVI (minimum one out of the three other than itself)                                           |                              |                              |                              |
| 2                               | Main Processor / Operating System | Embedded                                                                                                                             |                              |                              |                              |
| 3                               | System Resources                  | Pentaplex function: recording, playback, live view, backup, remote access over IP network                                            |                              |                              |                              |
| 4                               | Recorder Control Options          | Video Front panel, IR Based remote control, Keyboard (Both RS485 and IP), IP Network, USB mouse                                      |                              |                              |                              |
| 5                               | Analog / HD Camera Input          | Minimum 4 BNC                                                                                                                        |                              |                              |                              |
| 6                               | IP Camera Input                   | 16 Ch. HD + 8 IP Ch. (32 Ch HD+ 16IP CH: 32 CH XVR)                                                                                  |                              |                              |                              |
| 7                               | Recorder Video Output             | Minimum 1 VGA, 1 HDMI                                                                                                                |                              |                              |                              |
| 8                               | Recorder Audio Input              | Minimum 1 audio channel, BNC or RCA                                                                                                  |                              |                              |                              |
| 9                               | Recorder Audio Output             | Minimum 1 audio channel, BNC or RCA                                                                                                  |                              |                              |                              |
| 10                              | Recorder Bidirectional Talk       | 1 channel Input, BNC, 1 channel Output, BNC or RCA                                                                                   |                              |                              |                              |
| 11                              | Display Screen Mode               | 1,4,8,9,16,32 ALL (Window)                                                                                                           |                              |                              |                              |
| 12                              | Camera Scheduling                 | Supported (Continuous/Motion/Event based)                                                                                            |                              |                              |                              |
| 13                              | On Screen Display                 | Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking. |                              |                              |                              |
| 14                              | Video/Audio Compression           | H.264 or better                                                                                                                      |                              |                              |                              |
| 15                              | Image Resolution                  | 1080p/720p/VGA/WD1/4CIF/CIF or better                                                                                                |                              |                              |                              |
|                                 |                                   | For 1080p stream access:<br>1080p/720p@15 fps;<br>VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)                                             |                              |                              |                              |
| 17                              | Video Encoding Bit Rate           | Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher                                                                 |                              |                              |                              |
| 18                              | Image Quality                     | 6 levels (VBR/ CBR)                                                                                                                  |                              |                              |                              |
| 19                              | Recording Mode                    | Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording                                                |                              |                              |                              |
| 20                              | Recording Priority                | Manual; Alarm; Motion Detection & Regular                                                                                            |                              |                              |                              |

|    |                           |                                                                                                                                                                                                                              |  |  |  |
|----|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 21 | Recording Interval        | Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes                                                                                                                                                                   |  |  |  |
| 22 | Alarm Input               | Supported Minimum 16                                                                                                                                                                                                         |  |  |  |
| 23 | Relay Output              | Supported Maximum 8                                                                                                                                                                                                          |  |  |  |
| 24 | Water Marking             | Supported                                                                                                                                                                                                                    |  |  |  |
| 25 | Playback Channel          | Synchronous Playback 1,2,4,16,32                                                                                                                                                                                             |  |  |  |
| 26 | Recorded Data Search Mode | Video Time & Date, Exact search (with Date, Hour, Minute and Second accuracy), Motion Detection, Alarm                                                                                                                       |  |  |  |
| 28 | Playback Options          | Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling |  |  |  |
| 29 | Operation Over Network    | Monitor, Playback, File download, Log information, System setting,                                                                                                                                                           |  |  |  |
| 30 | Hard Drive Storage Option | For 16 / 32 Channel – 8 SATA , should support up to 10 TB per SATA port                                                                                                                                                      |  |  |  |
| 31 | USB Interface             | Minimum 2 Ports and at least 1 should be USB3.0                                                                                                                                                                              |  |  |  |
| 32 | Power Supply              | AC 100~240 V, 50/60 Hz                                                                                                                                                                                                       |  |  |  |
| 33 | Working Environment       | All Indoor weather conditions                                                                                                                                                                                                |  |  |  |
| 34 | Duplex type               | Recorder should be able to playback recoded footage without having to stop recording                                                                                                                                         |  |  |  |
| 35 | Certificate               | UL ,CE,FCC & BIS                                                                                                                                                                                                             |  |  |  |
| 36 | HDD quality               | Surveillance Hard Disk: Sky Hawk/Western Digital                                                                                                                                                                             |  |  |  |

#### 04 SATA XVR

| S/No | Features                                                       | Specification (Make & Model)-----<br>-----<br>Specification (Make & Model)-----<br>-----<br>Specification (Make & Model)-----<br>-----                                                                                                                  | Compliance<br>32 CH-<br>Yes/No | Compliance<br>16 CH-<br>Yes/No | Compliance<br>08 CH-<br>Yes/No |
|------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 1    | Operating System                                               | Embedded Linux                                                                                                                                                                                                                                          |                                |                                |                                |
| 2    | User Interface                                                 | Web, Local GUI                                                                                                                                                                                                                                          |                                |                                |                                |
| 3    | IntelliSearch 2.0 AI by XVR (Number of Channels)               | 2 Channels                                                                                                                                                                                                                                              |                                |                                |                                |
| 4    | Perimeter Performance AI by XVR (Number of Channels)           | Advanced Mode: 2 channels, 10 IVS rules for each Channel General Mode: 4 channels, 10 IVS rules for each Channel                                                                                                                                        |                                |                                |                                |
| 5    | Face Attributes                                                | Gender, Age group, Glasses, Expressions, Face mask, Beard                                                                                                                                                                                               |                                |                                |                                |
| 6    | Face Detection Performance of AI by DVR (Number of Channels)   | 2 Channels (up to 12 face images/s each channel)                                                                                                                                                                                                        |                                |                                |                                |
| 7    | Face Database Capacity                                         | Up to 10 face databases with 10,000 images                                                                                                                                                                                                              |                                |                                |                                |
| 8    | Face Recognition Performance of AI by DVR (Number of Channels) | 2 Channels                                                                                                                                                                                                                                              |                                |                                |                                |
| 9    | IMD+ by DVR                                                    | 16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change                                                                                                                |                                |                                |                                |
| 10   | IMD+ by Camera                                                 | 24 Channels (8 IP Channels + 16 Analog Channels)                                                                                                                                                                                                        |                                |                                |                                |
| 11   | AI Video Quality Analytics by DVR                              | 16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white                                                                                                                                  |                                |                                |                                |
| 12   | Scene Changing by DVR                                          | 1 Channel                                                                                                                                                                                                                                               |                                |                                |                                |
| 13   | Irregular Black Block Masking by DVR                           | 1 Channel                                                                                                                                                                                                                                               |                                |                                |                                |
| 14   | Analog Camera Input                                            | 16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect                                                                                                                                                                                                    |                                |                                |                                |
| 15   | Camera Input                                                   | CVI: 5MP@25 fps, 5MP@20 fps, 5MP@10/12.5 fps, 4MP@25/30 fps, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30fps<br>TVI: 5MP(2560 x 1944)@20 fps, 5MP(2960 x 1665)@20 fps, 4MP@25/30 fps, 1080p@25/30 fps, 720p@25/30 fps<br>AHD: 5MP@20 fps, 4MP@25/30 fps, |                                |                                |                                |

|    |                     |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|----|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|    |                     | 1080p@25/30 fps, 720p@25/30 fps                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| 16 | IP Camera Input     | Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps<br>*After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, IMD, Perimeter Protection and IntelliSearch 2.0 cannot be used. |  |  |  |
| 17 | Video Streaming     | Main stream: 5MP Mode: 4 Channels 5MP@(1 fps-6 fps), others 5M-N@(1 fps-12 fps)<br>5M-N Mode: 5M-N@(1 fps -12 fps), 4M-N/1080p@(1 fps-15 fps), 1080N/720p/960H/D1/ CIF@(1 fps-25/30 fps)                                                                                                                                                                                                         |  |  |  |
| 18 | Stream Capability   | Sub stream: D1/CIF@(1 fps-15 fps)<br>Dual stream                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| 19 | Bit Rate            | 32 kbps-6144 kbps                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 20 | Audio Sample Rate   | 8 kHz, 16 bit                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |
| 21 | Audio Bit Rate      | 64 Kbps                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| 22 | Video Output        | 2 HDMI, 1 VGA, 1 CVBS<br>HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720<br>VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720<br>It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face, IVS & IMD or IntelliSearch is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is configurable.                                                                          |  |  |  |
| 23 | Video Display Split | When IP extension mode not enabled: 1/4/8/9/16<br>When IP extension mode enabled: 1/4/8/9/16/25<br>It changes to 1/4/9 split when Face or IVS & IMD is selected in AI Mode                                                                                                                                                                                                                       |  |  |  |
| 24 | Video Compression   | Instastream, H.265, H.264+, H.264                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 25 | Audio Compression   | G.711a, G.711u, PCM, AAC                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| 26 | Protocols           | HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, FTP, DDNS, SNMP, Alarm Server, InstaOn, Auto Connect, IP Search, ONVIF (Profile T, Profile S, Profile G), CGI, SDK                                                                                                                                                                                            |  |  |  |
| 27 | Smart Phone         | iOS, Android                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| 28 | Browser             | Chrome, IE, Safari, Edge, Firefox                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 29 | Network Mode        | Multi-address mode, Fault Tolerance, Load Balance                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 30 | Record Mode         | General, Motion detection, Intelligent, Alarm, POS                                                                                                                                                                                                                                                                                                                                               |  |  |  |
| 31 | Playback Mode       | Instant playback, General playback, Event playback, Tag playback, Smart playback                                                                                                                                                                                                                                                                                                                 |  |  |  |
| 32 | Disk Group          | Support                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |

|    |                       |                                                                                                                                                        |  |  |  |
|----|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 33 | General Alarm         | Motion detection, Local alarm, Alarm box, HDCVI alarm, Camera external alarm, Network alarm, PIR alarm                                                 |  |  |  |
| 34 | Abnormality Alarm     | Error (No disk, Disk error, Low space, Low quota space, Network disconnection, IP conflict, MAC conflict), Video loss, Video tampering, Camera offline |  |  |  |
| 35 | Intelligent Alarm     | Face detection, Face recognition, Perimeter protection, IMD+                                                                                           |  |  |  |
| 36 | Alarm Linkage         | Record, Snapshot (panoramic), Local alarm output, IPC external alarm output, Audio, Buzzer, Log, Preset, Email                                         |  |  |  |
| 37 | CVBS Output           | 1 Channel BNC                                                                                                                                          |  |  |  |
| 38 | Audio Input           | 4 Channels BNC, 16 Channels BNC (Coaxial Audio)                                                                                                        |  |  |  |
| 39 | Audio Output          | 1 Channel BNC                                                                                                                                          |  |  |  |
| 40 | Two-way Talk          | 1 Channel                                                                                                                                              |  |  |  |
| 41 | Alarm Input           | 16 Channels                                                                                                                                            |  |  |  |
| 42 | Alarm Output          | 6 Channels                                                                                                                                             |  |  |  |
| 43 | Hard Disk             | 4 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the environment temperature.                                           |  |  |  |
| 44 | Interface Ports       | 3 (1 front USB 2.0 port, 2 rear USB 3.0 ports), 1 RS485 Port, 1 RS232, 1 eSATA Port                                                                    |  |  |  |
| 45 | Ethernet              | 2 (10/100/1000 Mbps Ethernet port, RJ-45)                                                                                                              |  |  |  |
| 46 | Power Supply          | 100-240 VAC, 50±2% Hz                                                                                                                                  |  |  |  |
| 47 | Power Consumption     | <15 W (without HDD)                                                                                                                                    |  |  |  |
| 48 | Operating Temperature | -10°C ~ +55°C (14°F ~ +131°F)                                                                                                                          |  |  |  |
| 49 | Operating Humidity    | 10%-90% (RH), non-condensing                                                                                                                           |  |  |  |
| 50 | Storage Temperature   | -20°C to +60°C (-4°F to +140°F)                                                                                                                        |  |  |  |
| 51 | Dimensions            | 440.0 mm × 420.2 mm × 76.0 mm                                                                                                                          |  |  |  |
| 52 | Weight                | 4450g                                                                                                                                                  |  |  |  |

| 08/16/32 CH 04 SATA NVR |                  |                                                                                                                                        |                                 |                                 |                                 |
|-------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| S/N o.                  | Features         | Specification (Make & Model)-----<br>-----<br>Specification (Make & Model)-----<br>-----<br>Specification (Make & Model)-----<br>----- | Compliance<br>08 CH<br>(Yes/No) | Compliance<br>16 CH<br>(Yes/No) | Compliance<br>32 CH<br>(Yes/No) |
| 1                       | Processor        | Industrial-grade processor                                                                                                             |                                 |                                 |                                 |
| 2                       | IP Camera Input  | 08/16/32 Channel                                                                                                                       |                                 |                                 |                                 |
| 3                       | Operating System | Embedded LINUX                                                                                                                         |                                 |                                 |                                 |
| 4                       | User Interface   | Web, Local GUI                                                                                                                         |                                 |                                 |                                 |
| 5                       | Video Output     | 2-channel VGA, 2-channel HDMI video output. Heterogeneous video source                                                                 |                                 |                                 |                                 |

|    |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
|----|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|    |                                                            | output for HDMI1 and HDMI2. Simultaneous video source output for VGA1 and HDMI1. Simultaneous video source output for VGA2 and HDMI2. Supports 4K display.                                                                                                                                                                                                                                                             |  |  |  |
| 6  | Compression                                                | H.265; Smart H.264+; H.264; MJPEG                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 7  | Encode Strategy                                            | Instastream                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| 8  | Decoding Capability                                        | AI disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30fps<br>AI enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30fps |  |  |  |
| 9  | AI by NVR                                                  | Face detection; face recognition; perimeter protection; SMD Plus                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| 10 | AI by Camera                                               | Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map                                                                                                                                                                                                |  |  |  |
| 11 | Resolution                                                 | 32MP; 24MP; 16MP; 12MP; 8MP; 5MP; 4MP; 1080p; 720p; D1; CIF; QCIF                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 12 | Network Bandwidth                                          | AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing<br>AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing                                                                                                                                                                                                                                                                    |  |  |  |
| 13 | Video Display Split                                        | Main screen: 1/4/8/9/16<br>Sub screen: 1/4/8/9/16                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 14 | Perimeter Performance AI by NVR (Number of Channels)       | 4 channels, 10 IVS rules for each channel                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| 15 | Perimeter Performance of AI by Camera (Number of Channels) | 16 channels                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| 16 | Face Attributes                                            | Gender; age group; glasses; expressions; face mask; beard                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| 17 | Face Detection Performance of AI by Recorder (Number of    | 2 channels (up to 12 face images/s each channel)                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |

|    | Channels)                                                         |                                                                                                                                                                                                              |  |  |  |
|----|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 18 | Face Detection Performance of AI by Camera (Number of Channels)   | 16 channels                                                                                                                                                                                                  |  |  |  |
| 19 | Face Database Capacity                                            | Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image. |  |  |  |
| 20 | Face Recognition Performance of AI by NVR (Number of Channels)    | 16-channel FD (by camera) + FR (by nvr), image stream: 16 face images/s<br>2-channel FD (by nvr) + FR (by nvr), video stream: 12 face images/s                                                               |  |  |  |
| 21 | Face Recognition Performance of AI by Camera (Number of Channels) | 16 channels                                                                                                                                                                                                  |  |  |  |
| 22 | SMD Plus by NVR                                                   | 8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change                                                                      |  |  |  |
| 23 | SMD Plus by Camera                                                | 16 channels                                                                                                                                                                                                  |  |  |  |
| 24 | Metadata Performance of AI by Camera (Number of Channels)         | 8 channels                                                                                                                                                                                                   |  |  |  |
| 25 | Human Attributes                                                  | Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella                                                                                                                           |  |  |  |
| 26 | Motor Vehicle Attributes                                          | License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location                                                                    |  |  |  |
| 27 | Non-motor Vehicle Attributes                                      | Vehicle model, vehicle color, number of persons, helmet                                                                                                                                                      |  |  |  |
| 28 | ANPR by Camera (Number of Channels)                               | 8 channels                                                                                                                                                                                                   |  |  |  |
| 29 | License Plate Database Capacity                                   | 1. Create up to 20,000 plate numbers.<br>2. Blocklist and allow list                                                                                                                                         |  |  |  |

|    |                        |                                                                                                                                                                                                                         |  |  |  |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 30 | Anomaly Alarm          | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behaviour of fan; cybersecurity exception                                                                                     |  |  |  |
| 31 | Intelligent Alarm      | Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map |  |  |  |
| 32 | General Alarm          | Motion detection; privacy masking; local alarm                                                                                                                                                                          |  |  |  |
| 33 | Alarm Linkage          | Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email                                                                                       |  |  |  |
| 34 | Audio Input            | 1-channel RCA                                                                                                                                                                                                           |  |  |  |
| 35 | Audio Output           | 2-channel RCA                                                                                                                                                                                                           |  |  |  |
| 36 | Audio Compression      | G.711a; G.711u; PCM; G726                                                                                                                                                                                               |  |  |  |
| 37 | Disk Group             | Support                                                                                                                                                                                                                 |  |  |  |
| 38 | Alarm Input            | 16 channel                                                                                                                                                                                                              |  |  |  |
| 39 | Alarm Output           | 8 channels (1-channel 12 V 1 A output)                                                                                                                                                                                  |  |  |  |
| 40 | Hard Disk              | 8 SATA ports, up to 16TB each. The maximum HDD capacity varies with environment temperature                                                                                                                             |  |  |  |
| 41 | Multi-channel Playback | Up to 16 channels                                                                                                                                                                                                       |  |  |  |
| 42 | Record Mode            | General, motion detection; intelligent; alarm; POS                                                                                                                                                                      |  |  |  |
| 43 | Backup Method          | USB device and network                                                                                                                                                                                                  |  |  |  |
| 44 | Playback Mode          | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)                                                                                                            |  |  |  |
| 45 | Smart Phone            | iPhone, iPad, Android Phone                                                                                                                                                                                             |  |  |  |
| 46 | RAID                   | RAID 0/1/5/6/10                                                                                                                                                                                                         |  |  |  |
| 47 | Backup Mode            | USB Device/Network                                                                                                                                                                                                      |  |  |  |
| 48 | Interface Ports        | 4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 2 HDMI, 2 VGA, 1 eSATA Port, 1 RS232, 2 RS485 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)                               |  |  |  |
| 49 | Protocols              | HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search; Multicast; InstaOn cloud; Auto Registration, ONVIF 21.12(Profile T;                  |  |  |  |

|    |                       |                                                                     |  |  |  |
|----|-----------------------|---------------------------------------------------------------------|--|--|--|
|    |                       | Profile S; Profile G); CGI; SDK                                     |  |  |  |
| 50 | Ethernet              | 2 x (10/100/1000 Mbps Ethernet port, RJ-45)                         |  |  |  |
| 51 | Power Supply          | 100-240 VAC, 50-60 Hz                                               |  |  |  |
| 52 | Power Consumption     | ≤ 13 W (without HDD)                                                |  |  |  |
| 53 | Operating Temperature | -10 °C to +55 °C (14 °F to +131 °F)                                 |  |  |  |
| 54 | Operating Humidity    | 10%-93% (RH)                                                        |  |  |  |
| 55 | Storage Temperature   | -20 °C to +60 °C (-4 °F to +140 °F)                                 |  |  |  |
| 56 | Dimensions            | 439.9 mm × 457.9 mm × 89.0 mm (17.32" × 18.03" × 3.50") (W × D × H) |  |  |  |
| 57 | Weight                | 6.4 kg                                                              |  |  |  |

#### CAT 6 Cable

| S. No. | Parameter                     | Specification (Make & Model)-----         | Compliance (Yes/No) |
|--------|-------------------------------|-------------------------------------------|---------------------|
| 1      | Type                          | U/UTP 4Pairs cable-category 6- PVC Sheath |                     |
| 2      | Size                          | 23 AWG                                    |                     |
| 3      | Material                      | Solid Bare Copper                         |                     |
| 4      | Test Standard                 | ISO/IEC11801, TIA-568-C.2                 |                     |
| 5      | Ambient Temperature           | -20°C - 75°C                              |                     |
| 6      | Insulation Material           | Polyethylene (HDPE)                       |                     |
| 7      | Sheath material               | PVC Polyvinyl chloride                    |                     |
| 8      | Tensile Strength before aging | >13.5                                     |                     |
| 9      | Aging Period                  | 100 Deg C x 24h x 10d                     |                     |
| 10     | Colour Chart                  | 1 White- Blue /Blue                       |                     |
|        |                               | 2 White-Orange /Orange                    |                     |
|        |                               | 3 White-Green /Green                      |                     |
|        |                               | 4 White- Brown /Brown                     |                     |

#### **24/29/32" HD LED Monitor**

| S.No | Category | Parameters  | Specification (Make & Model)----- | Compliance Yes/No |
|------|----------|-------------|-----------------------------------|-------------------|
| 1    | Monitor  | Backlight   | LED Backlight                     |                   |
| 2    |          | Screen Size | 24/29/32 inch                     |                   |

#### **RG -6**

| Coaxial Cable | RG-6       | Specification (Make & Model)----- | Compliance (Yes/No) |
|---------------|------------|-----------------------------------|---------------------|
|               |            |                                   |                     |
| Conductor     | Material   | Bare copper                       |                     |
|               | Wire Gauge | 26AWG                             |                     |

|                    |                   |                                                                          |  |
|--------------------|-------------------|--------------------------------------------------------------------------|--|
|                    | Diameter          | 0.41±0.01mm                                                              |  |
| Insulation         | Material          | FPE                                                                      |  |
|                    | Diameter          | 2.0±0.1mm                                                                |  |
| Tape               | Material          | Copper foil                                                              |  |
| Braid              | Material          | Copper clad aluminum magnesium                                           |  |
|                    | Braiding Standard | 5*16*0.12mm ±0.008mm                                                     |  |
|                    | Braiding Density  | ≥80%                                                                     |  |
| Jacket             | Material          | PVC                                                                      |  |
| Impedance          |                   | 75ohms                                                                   |  |
|                    |                   |                                                                          |  |
| <b>Power Cable</b> | <b>2Core</b>      |                                                                          |  |
| Conductor          | Material          | Bare copper                                                              |  |
|                    | Quantity          |                                                                          |  |
|                    | Diameter          | 11*0.16±0.008mm                                                          |  |
| Insulation         | Material          | SR-PVC                                                                   |  |
|                    | Diameter          | 1.2±0.1mm                                                                |  |
| Jacket             | Material          | PVC                                                                      |  |
| Make & Type        | Acceptable type   | ISI Marked (IS-694, 1990)<br>Make – Finolex, Polycab or similar quality, |  |

| 24 PORT POE |                                  |                                                                                                                                                                                                |                     |
|-------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| S/NO.       | FEATURES                         | Specification (Make & Model)-----                                                                                                                                                              | COMPLIANCE (Yes/No) |
| 1           | Model Name                       | 24 Port PoE + 2 Gigabit Port + 2 SFP Port AI PoE Switch                                                                                                                                        |                     |
| 2           | Network Standard                 | IEEE 802.3i 10BASE-T/IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3x Flow Control, IEEE 802.3af/at/bt Power over Ethernet                                                         |                     |
| 3           | Network Ports                    | PoE (1~22): 10/100Mbps PoE ports (RJ45); PoE (23~24): 10/100Mbps PoE ports, Support bt 60W High Power; LAN (25~26): 10/100/1000Mbps uplink ports (RJ45); SFP (27~28): 10/100/1000Mbps SFP port |                     |
| 4           | Bandwidth                        | 12.8Gbps                                                                                                                                                                                       |                     |
| 5           | MAC Address List                 | 8K                                                                                                                                                                                             |                     |
| 6           | Transmission Distance            | 100Mbps / 10Mbps, Auto-Adaption 250Mtr                                                                                                                                                         |                     |
| 7           | Transmission Rate                | 2000Mbps Full Duplex; 10 or 100 or 1000 Mbps Half Duplex                                                                                                                                       |                     |
| 8           | AI Watchdog                      | Port 1~24                                                                                                                                                                                      |                     |
| 9           | Frame Filter & Transmission Rate | 14800pps max for 10M port, 148800pps max for 100M port, 1488000pps max for 1000M port                                                                                                          |                     |
| 10          | Network Latency                  | (10 to 1000Mbps): ≤16μs (use the 64byte package size)                                                                                                                                          |                     |

|    |                              |                                                                                                                  |  |
|----|------------------------------|------------------------------------------------------------------------------------------------------------------|--|
| 11 | ESD Protection               | 8KV, Per: IEC61000-4-2                                                                                           |  |
| 12 | Lightning Protection         | 6KV, Per: IEC61000-4-5                                                                                           |  |
| 13 | Operating Temperature        | -30°C~60°C                                                                                                       |  |
| 14 | Storage Temperature          | -40°C~70°C                                                                                                       |  |
| 15 | Storage / Operating Humidity | 5%~90% Non-condensing / 10%~90% Non-condensing                                                                   |  |
| 16 | Power Input                  | AC 90~240V Total≤300W                                                                                            |  |
| 17 | Power Output                 | PoE 1~22 Port: 1/2(+52V), 3/6(GND)≤30W; PoE 23~24 Port: 1245(+53V), 3678(GND) Compatible 1/2(+52V), 3/6(GND)≤60W |  |
| 18 | Package Content              | AC Power Cable, User Manual                                                                                      |  |
| 19 | Dimensions                   | 430mm(L) x 180mm(W) x 45mm(H)                                                                                    |  |
| 20 | Weight                       | 2.65KG                                                                                                           |  |

| <b>8 PORT POE</b> |                        |                                                                                                                                |                     |
|-------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------|
| S/NO              | FEATURES               | Specification (Make & Model)-----                                                                                              | Compliance (Yes/No) |
| 1                 | Model Name             | 8 PoE Ports + 2 Gigabite Uplink Ports                                                                                          |                     |
| 2                 | Uplink Ports           | 2, 1000Mbps; RJ45 Ports; Transmission Distance: Default: 0-100m                                                                |                     |
| 3                 | PoE Ports              | 8, 10/100Mbps; RJ45 Ports; Max. 30W Output of Single PoE Port                                                                  |                     |
| 4                 | Network Standard       | IEEE802.3/802.3u/IEEE 802.3ab/802.3x                                                                                           |                     |
| 5                 | Switch Capacity        | 5.6Gbps (non-blocking)                                                                                                         |                     |
| 6                 | Packet Forwarding Rate | 4.166Mpps                                                                                                                      |                     |
| 7                 | Network Ports          | 10                                                                                                                             |                     |
| 8                 | MAC Address List       | 2K                                                                                                                             |                     |
| 9                 | Transmission Distance  | 0-100m/100Mbps or Max. 250m/10Mbps via Cat.5e or more under Extend mode                                                        |                     |
| 10                | PoE Standard           | IEEE802.3af, IEEE802.3at                                                                                                       |                     |
| 11                | Packet Buffer          | 448K                                                                                                                           |                     |
| 12                | PoE Watchdog           | Support                                                                                                                        |                     |
| 13                | Surge Protection       | Common mode/RJ45 port: 4KV, Differential mode/RJ45 port: 2KV, Common mode/Power board: 2KV, Differential mode/Power board: 2KV |                     |
| 14                | ESD Protection         | Air discharge: 8KV, Contact discharge: 6KV                                                                                     |                     |
| 15                | VLAN                   | Support                                                                                                                        |                     |
| 16                | Forwarding Mode        | Store-and-forward                                                                                                              |                     |
| 17                | PWR Indicator          | Light on: Powering; Light off: No Power                                                                                        |                     |
| 18                | Mode DIP               | Green light off: Normal/Default mode; Green light on: VLAN mode; Green light flash: Extend mode                                |                     |
| 19                | RJ-45 ACT Indicator    | Green light off: Link is disconnected; Green light on: Link is connected; Green light flash: Data Transmitting                 |                     |
| 20                | PoE Power Supply       | 1/2(+), 3/6(-)                                                                                                                 |                     |
| 21                | Operating Temperature  | -10°C~50°C                                                                                                                     |                     |

|    |                     |                                                    |  |
|----|---------------------|----------------------------------------------------|--|
| 22 | Humidity            | 5%-90%, non-condensing                             |  |
| 23 | Storage Temperature | -40°C~70°C                                         |  |
| 24 | PoE Power Budget    | 96W                                                |  |
| 25 | Power Source        | Built-in Power Supply, Input: 100-240V AC, 50/60Hz |  |
| 26 | Power Consumption   | <5W                                                |  |
| 27 | Dimensions          | 200mm x 118mm x 44mm                               |  |
| 28 | Weight              | 0.62kg (not include input cable & packaging)       |  |

### 16 PORT POE

| S/NO. | FEATURES                             | Specification (Make & Model)-----                                                                                                                                                            | Compliance (Yes/No) |
|-------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.    | NetworkPorts                         | PoE(1~15):10/100MbpsPoEports(RJ45),PoE(16):10/100/1000MbpsPoEports,BTport, Compatible uplink ports (RJ45),LAN (1~2):10/100/1000Mbps uplink ports (RJ45),SFP: 10/100/1000Mbpsuplinkports(SFP) |                     |
| 2.    | Networkprotocolandstandards          | IEEE802.3i10BASE-T,IEEE802.3u100BASE-TX/IEEE802.3ab1000BASE-T,IEEE802.3xFlowControl,IEEE802.3af/at/btPoweroverEthernet                                                                       |                     |
| 3.    | MAC Address List                     | 8K                                                                                                                                                                                           |                     |
| 4.    | Transmission Distance                | 100Mbps/10MbpsAdaptiveMAX250m                                                                                                                                                                |                     |
| 5.    | Transmission Rate                    | 2000MbpsFullDuplex;10or100or1000MbpsHalfDuplex                                                                                                                                               |                     |
| 6.    | PoE watch dog                        | Port1~16                                                                                                                                                                                     |                     |
| 7.    | The Frame Filter & Transmission Rate | 14800ppsthmostfor10Mport,148800ppsthmostfor100Mport,1488000ppsthmost for 1000M Port                                                                                                          |                     |
| 8.    | Band width                           | 12.8Gbps                                                                                                                                                                                     |                     |
| 9.    | Performance                          | NetworkLatency(10to1000Mbps):≤16μs(usethe64byte packagesize)                                                                                                                                 |                     |
| 10.   | Surge Protection                     | 6KV,Per:IEC61000-4-5                                                                                                                                                                         |                     |
| 11.   | ESD Protection                       | 8KV,Per:IEC61000-4-2                                                                                                                                                                         |                     |
| 12.   | Power Budget                         | ≤300W                                                                                                                                                                                        |                     |
| 13.   | Power Input                          | AC180~240V                                                                                                                                                                                   |                     |
| 14.   | PoE Output                           | PoE1~14Port:1/2(+52V),3/6(GND)≤30W                                                                                                                                                           |                     |
| 15.   | Operating Temperature                | -30°C~60°C                                                                                                                                                                                   |                     |
| 16.   | StorageTemperature                   | -40°C~70°C                                                                                                                                                                                   |                     |
| 17.   | StorageHumidity                      | 5%~90%non-condensing                                                                                                                                                                         |                     |
| 18.   | Humidity                             | 10%~90%non-condensing                                                                                                                                                                        |                     |
| 19.   | Dimensions                           | 430mmx180mmx45mm(Lx WxH)                                                                                                                                                                     |                     |
| 20.   | Package Content                      | ACPowerCable,InstallationManual                                                                                                                                                              |                     |

**Seal & Signature of Vendor**

---

**Description of Items:**

- **Wallrack-6U** with Fan & Power Distribution Unit Metal Sheet thickness minimum 0.8 mm
- **SD Cards for IP cameras** - 128/256 GB
- **Mouse** -Wireless/ Wired
- **SMPS 12v 5/10 A for cameras**
- **Hard Disk Drive for NVR/XVR: Surveillance Series Only 4 TB/6 TB/8 TB (furbished HDD will not be considered)**
- **POE Switch rack mountable-** 8+2 Port ,16+2 Port
- **Certification for Cameras & NVR –STQC Certification/BIS Certification is mandatory.**

**OEM of NVR & Cameras shall be same and should :-**

- **Have at least 5 years' presence in Indian Banking Industry as approved OEM of DVR/XVR/NVR & cameras in Scheduled Commercial Banks**
- **Have nationwide network for sales and service (details to be submitted in MAF)**
- **have own manufacturing facility in India;**
- **have following certifications/compliance standards (copies of Certificates be attached)**
- **ISO9001 for Quality Management System**
- **ISO14001 for Environmental Management System**
- **ISO27001 for Information Security Management System**

---

**Appendix -F**

**Note: Vendor/ Company/ Firm has to submit this certificate mandatorily.**

**Certificate**  
**(By Company/ Firm/Vendor)**

**We hereby certified that above mentioned items will be provided in new and original condition to install in CCTV System / Alarm System and all the latest certification of compliance and guidelines of Indian Government in this regard (CCTV And Alarm System related work) are complying by us and same will be served during service/ contract period.**

**If found any refurbished or duplicate or used items/ equipments installation during service/ contract period Bank may initiate suitable action against our Company/ Firm as deemed fit.**

**Seal & Signature of Authorized Person  
(Name of the Representative)**

**Name of the Company/ Firm**

**Annexure-9 (Alarm)**

**Commercial/ Financial Bid (Rates, Make & Models) for Integrated Alarm System (Fire & Burglary)**

| SN | Details of Items with 02 years warranty-CE/FCC/UL/ BIS Certified                                                                                                                                                              | Make & Model (Must be entered)        | Quantity (A)  | 01 Unit Rates-(B) | Qty*Unit rate-(A*B) |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|-------------------|---------------------|
| 01 | Integrated Security alarm with fire Panel with Auto dialer 12+1 Zone fully programmable. Compatible with GSM / IP/ PSTN communicators and on board LCD display with inbuilt SMPS, Enclosure and battery option (12 Volt 7Amp) | Agni/ Securico/ Best performing Brand | 10            |                   |                     |
| 02 | Security Alarm with fire Panel with Auto dialer 08+1 Zone fully programmable. Compatible with GSM / IP/ PSTN communicators and on board LCD display with inbuilt SMPS, Enclosure and battery option (12 Volt 7Amp)            | Agni/ Securico/ Best performing Brand | 10            |                   |                     |
| 03 | Supply & install of TCP/ IP Communicator for CMS and remote Configuration                                                                                                                                                     |                                       | 1             |                   |                     |
| 04 | Smoke Detector/ sensor                                                                                                                                                                                                        |                                       | 30            |                   |                     |
| 05 | Heat Detector/ Sensor                                                                                                                                                                                                         |                                       | 10            |                   |                     |
| 06 | Magnetic contact switch                                                                                                                                                                                                       |                                       | 25            |                   |                     |
| 07 | PIR sensor                                                                                                                                                                                                                    |                                       | 30            |                   |                     |
| 08 | Vibration Sensors                                                                                                                                                                                                             |                                       | 10            |                   |                     |
| 09 | Shutter contact sensors                                                                                                                                                                                                       |                                       | 10            |                   |                     |
| 10 | Flame detectors                                                                                                                                                                                                               |                                       | 10            |                   |                     |
| 11 | Panic switch                                                                                                                                                                                                                  |                                       | 100           |                   |                     |
| 12 | Hooter / Sounder                                                                                                                                                                                                              |                                       | 20            |                   |                     |
| 13 | PCB (for Fire Alarm)                                                                                                                                                                                                          |                                       | 10            |                   |                     |
| 14 | 12V Battery- 7AH                                                                                                                                                                                                              |                                       | Exide/ Amaron |                   |                     |
| 15 | MCP (manual call point)                                                                                                                                                                                                       |                                       | 10            |                   |                     |
| 16 | Response Indicator                                                                                                                                                                                                            |                                       | 10            |                   |                     |
| 17 | 02 Core Cabling Polycab/Finolex                                                                                                                                                                                               |                                       | 1000 mtrs     |                   |                     |
| 18 | Cabling Armed Cable Polycab/Finolax                                                                                                                                                                                           |                                       | 1000 mtrs     |                   |                     |
| 19 | PVC Conduite Pipe ISI marked                                                                                                                                                                                                  |                                       | 500 Feet      |                   |                     |
| 20 | Wired Keypad                                                                                                                                                                                                                  |                                       | 10            |                   |                     |
| 21 | Dialer                                                                                                                                                                                                                        |                                       | 10            |                   |                     |
| 22 | Installation of complete new System in a premises.                                                                                                                                                                            |                                       |               |                   |                     |
| 23 | Annual Maintenance Charge (Divided in 04 mandatory visits each Branch & Office in each Quarter)                                                                                                                               |                                       |               |                   |                     |
|    | <b>Total cost of all above items</b>                                                                                                                                                                                          | <b>Grand Total=</b>                   |               |                   |                     |

**Note: Make and Model details of best performing Brand for Each items must be entered in above table. Rate of all items are inclusive of applicable GST to be entered.**

**Signature & Seal of the Bidder**

**Date:**

**Annexure-9 (CCTV)**

**Commercial/ Financial Bid (Rates, Make & Models) for CCTV System**

| SN | Items with 1years warranty- CE/FCC/UL/ BIS Certified                                                                                             | MAKE/MODE L | Qty (A)            | UNIT RATE-(B) | Total Qty * Unit rate- (AxB) |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|---------------|------------------------------|
| 1  | 32 Channel Standalone NVR 4 SATA Portwith built in 90 to 180 days recording provision as per the technical Compliance sheet With STQC Compliance |             | As per requirement |               |                              |
| 2  | 16 Channel Standalone NVR 4 SATA Portwith built in 90 to 180 days recording provision as per the technical Compliance sheet With STQC Compliance |             | As per requirement |               |                              |
| 3  | 8 Channel Standalone NVR 4 SATA port with built in 90 to 180 days recording provision as per the technical Compliance sheet With STQC Compliance |             | As per requirement |               |                              |
| 4  | 4 Channel Standalone NVR 2 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet With STQC Compliance |             | As per requirement |               |                              |
| 5  | 32 Channel Standalone XVR 4 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet.:                   |             | As per requirement |               |                              |
| 6  | 16 Channel Standalone XVR 4 SATA Portwith built in 90 to 180 days recording provision as per the technical Compliance sheet                      |             | As per requirement |               |                              |
| 7  | 8 Channel Standalone XVR 4 SATA portwith built in 90 to 180 days recording provision as per the technical Compliance sheet.                      |             | As per requirement |               |                              |
| 8  | 32 Channel Standalone DVR 4 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet.:                   |             | As per requirement |               |                              |
| 9  | 16 Channel Standalone DVR4 SATA Portwith built in 90 to 180 days recording provision as per the technical Compliance sheet.:                     |             | As per requirement |               |                              |
| 10 | 8 Channel Standalone DVR: 4 SATA portwith built in 90 to 180 days recording provision as per the technical Compliance sheet.                     |             | As per requirement |               |                              |
| 11 | 4 Channel Standalone DVR 2 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet.                     |             | As per requirement |               |                              |

|    |                                                                                                                                                       |             |                    |  |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|--|--|
| 12 | 4 Channel Standalone ATM NVR 2 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet. With STQC Compliance |             | As per requirement |  |  |
| 13 | 4 Channel Standalone ATM XVR 2 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet.                      |             | As per requirement |  |  |
| 14 | 4 Channel Standalone ATM DVR 2 SATA Port with built in 90 to 180 days recording provision as per the technical Compliance sheet.                      |             | As per requirement |  |  |
| 15 | 24" TV Monitor with spot/auxillary input: LG/ SAMSUNG                                                                                                 |             | As per requirement |  |  |
| 16 | 19" Monitor with spot/auxillary input: LG/ SAMSUNG                                                                                                    |             | 05                 |  |  |
| 17 | Verifocal dome IR camera:                                                                                                                             |             | 10                 |  |  |
| 18 | Verifocal bullet IR camera:                                                                                                                           |             | 10                 |  |  |
| 19 | Pin hole Camera                                                                                                                                       |             | 70                 |  |  |
| 20 | 02 MP HD dome camera                                                                                                                                  |             | 100                |  |  |
| 21 | 02 MP HD Bullet camera,                                                                                                                               |             | 100                |  |  |
| 22 | 02 Mega Pixel IP IR Dome camera with facility of inbuilt recording covering distance of 30 meters (with STQC)                                         |             | 60                 |  |  |
| 23 | 2 Mega Pixel IP IR Bullet camera with facility of inbuilt recording covering distance of 30 meters (with STQC)                                        |             | 20                 |  |  |
| 24 | 2 TB Hard Disk Surveillance Hard Disk WD/ SEAGATE                                                                                                     | WD/ SEAGATE | 10                 |  |  |
| 25 | 4 TB Hard Disk Surveillance Hard Disk WD/ SEAGATE                                                                                                     | WD/ SEAGATE | 40                 |  |  |
| 26 | 6 TB Hard Disk Surveillance Hard Disk                                                                                                                 | WD/ SEAGATE | 10                 |  |  |
| 27 | 8 TB Hard Disk Surveillance Hard Disk                                                                                                                 | WD/ SEAGATE | 40                 |  |  |
| 28 | BNC Connector                                                                                                                                         | ISI Make    | 100                |  |  |
| 29 | Mouse Wirless                                                                                                                                         |             | 20                 |  |  |
| 30 | DVR 4U sturdy Rack (As per DVR/XVR/NVR Size)                                                                                                          | D-Link      | 60                 |  |  |
| 31 | Cat-6 Cable (ISI Marked) Preferably Polycab/Finolax (with RJ 45 Connector)                                                                            |             | 2000mtrs           |  |  |
| 32 | 2 Core 14 stand power cable Preferably Polycab/Finolax                                                                                                |             | 2000               |  |  |
| 33 | HDMI CABLE (as per need)                                                                                                                              |             | 50                 |  |  |
| 34 | VGA Cable- (as per need)                                                                                                                              |             | 50                 |  |  |
| 35 | RG6 Video Cable per mtr (as per need)                                                                                                                 |             | 50 mtrs            |  |  |
| 36 | 2 Core x 1.5 sq. mm. Power Cable                                                                                                                      |             | 50                 |  |  |
| 37 | Compatible Camera power supply                                                                                                                        |             | 100                |  |  |
| 38 | Wireless mouse                                                                                                                                        |             | 10                 |  |  |
| 39 | Power supply , 12V, 5 AMP                                                                                                                             |             | 40                 |  |  |
| 40 | Power supply , 12V, 10 AMP                                                                                                                            |             | 10                 |  |  |
| 41 | Power supply , 12V, 10 AMP                                                                                                                            |             | 20                 |  |  |

|                                      |                                                                                                                                                        |                            |                                                          |  |  |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------|--|--|
| 42                                   | PoE 24 Port                                                                                                                                            |                            | 05                                                       |  |  |
| 43                                   | PoE 16 Port                                                                                                                                            |                            | 10                                                       |  |  |
| 44                                   | PoE 08 Port                                                                                                                                            |                            | 10                                                       |  |  |
| 45                                   | PVC Conduit pipe                                                                                                                                       |                            | 500 feet                                                 |  |  |
| 46                                   | Cctv Camera Stand Wall Mount For Out Door                                                                                                              |                            | 50                                                       |  |  |
| 47                                   | Cctv Camera Stand Wall Mount For Indoor                                                                                                                |                            | 50                                                       |  |  |
| 48                                   | Cctv Camera Ceiling Mount For Indoor                                                                                                                   |                            | 50                                                       |  |  |
| 49                                   | DC Pin                                                                                                                                                 |                            | 100                                                      |  |  |
| 50                                   | 128 GB High speed Micro HD Card                                                                                                                        |                            | 10                                                       |  |  |
| 51                                   | Buy back rate of old DVR/XVR/NVR (less this amount)                                                                                                    |                            | (-)40 No.                                                |  |  |
| 52                                   | CCTV Footage retrieval Charges of one Branch.                                                                                                          |                            | One Branch/ Office/ATM                                   |  |  |
| 53                                   | Complete Installation of new System / Shifting of old system Charges in a premises.                                                                    |                            | 01 office/ Branch including ATM                          |  |  |
| 54                                   | Annual Maintenance Charges (Divided into 04 mandatory visits in a year each Branch/ Office (01 mandatory visit in each Quarter to each Branch/ Office) |                            | Per year (divided by 04) 01 office/ Branch including ATM |  |  |
| <b>Total Cost of all above items</b> |                                                                                                                                                        | <b>Grand total Price =</b> |                                                          |  |  |
|                                      |                                                                                                                                                        |                            |                                                          |  |  |

**Rate of All items should be inclusive of applicable GST. Please mention make and model details of best performing Brand for Each item mandatorily.**

**Signature & Seal of the Bidder**

**Date:**

## Appendix-G

List of Branches/ Offices under UCO Bank Dharamshala Zone-

| S.NO | BRANCH NAME                 | DISTRICT |
|------|-----------------------------|----------|
| 1    | Ghumarwin                   | BILASPUR |
| 2    | Bilaspur                    | BILASPUR |
| 3    | Jukhala                     | BILASPUR |
| 4    | Jhandutta                   | BILASPUR |
| 5    | Berthin                     | BILASPUR |
| 6    | Swarghat                    | BILASPUR |
| 7    | Kuthera                     | BILASPUR |
| 8    | Beri                        | BILASPUR |
| 9    | Bassi                       | BILASPUR |
| 10   | Gehrwin                     | BILASPUR |
| 11   | Kalol                       | BILASPUR |
| 12   | Dadhol                      | BILASPUR |
| 13   | Chharol                     | BILASPUR |
| 14   | Mcyc-Dharmshala             | BILASPUR |
| 15   | MAROTAN                     | BILASPUR |
| 16   | Gehra                       | CHAMBA   |
| 17   | Kihar                       | CHAMBA   |
| 18   | Chamba                      | CHAMBA   |
| 19   | Bijhari                     | HAMIRPUR |
| 20   | Bhoranj                     | HAMIRPUR |
| 21   | Hamirpur                    | HAMIRPUR |
| 22   | Rangas                      | HAMIRPUR |
| 23   | Uhal                        | HAMIRPUR |
| 24   | Kashmir                     | HAMIRPUR |
| 25   | BBNT Deotsidh               | HAMIRPUR |
| 26   | Nadaun                      | HAMIRPUR |
| 27   | Garli                       | KANGRA   |
| 28   | Birta                       | KANGRA   |
| 29   | Lambagaon                   | KANGRA   |
| 30   | Dharamshala                 | KANGRA   |
| 31   | Malan                       | KANGRA   |
| 32   | Khundian                    | KANGRA   |
| 33   | Palampur                    | KANGRA   |
| 34   | Central Tibetan Secretariat | KANGRA   |
| 35   | Jasur                       | KANGRA   |
| 36   | Gaggal                      | KANGRA   |
| 37   | Shahpur                     | KANGRA   |

|    |                          |              |
|----|--------------------------|--------------|
| 38 | Bhagsunag                | KANGRA       |
| 39 | Dari                     | KANGRA       |
| 40 | Dehra                    | KANGRA       |
| 41 | Nagrota Surian           | KANGRA       |
| 42 | Nurpur                   | KANGRA       |
| 43 | Paprola Khas             | KANGRA       |
| 44 | Chetru                   | KANGRA       |
| 45 | Gopalpur                 | KANGRA       |
| 46 | Manali                   | KULLU        |
| 47 | Raison                   | KULLU        |
| 48 | Kullu                    | KULLU        |
| 49 | Kalehli                  | KULLU        |
| 50 | Badagran Vihal           | KULLU        |
| 51 | Jalaman                  | LAHAUL SPITI |
| 52 | Keylong                  | LAHAUL SPITI |
| 53 | Mandi School Road        | MANDI        |
| 54 | Joginder Nagar           | MANDI        |
| 55 | Sarkaghat                | MANDI        |
| 56 | Sandhol                  | MANDI        |
| 57 | Bharol                   | MANDI        |
| 58 | Plassi                   | MANDI        |
| 59 | NER CHOWK                | MANDI        |
| 60 | Lathiani                 | UNA          |
| 61 | Nehrion                  | UNA          |
| 62 | Sohari Takoli            | UNA          |
| 63 | Dulehar                  | UNA          |
| 64 | Thathal                  | UNA          |
| 65 | Una                      | UNA          |
| 66 | Gagret                   | UNA          |
| 67 | Mehatpur                 | UNA          |
| 68 | Tahliwala                | UNA          |
| 69 | RSETI Office Bilaspur    | Bilaspur     |
| 70 | LDM Office Bilaspur      | Bilaspur     |
| 71 | Zonal Office Dharamshala | Kangra       |