



**Notice inviting Tender for “Supply, installation, testing and commissioning of CCTV Surveillance System and Video Analytics Solution for All India Institute of Ayurveda (AIIA) - New Delhi.”**

Tender No.: Z-50/180/2024-AIIA

Dated: 28.02.2025

**All India Institute of Ayurveda (AIIA)  
Gautampuri, Sarita Vihar, Mathura Road Delhi-110076**

Website: [www.aiia.gov.in](http://www.aiia.gov.in)

E-mail: [store-keeper4@aiia.gov.in](mailto:store-keeper4@aiia.gov.in)

Contract Number: (011) 2695 0401/02 Ext. 2206

Chapter-I

**Notice Inviting Tender**

The Director- AIIA, Delhi invites tender under two Bid System viz. Technical Bid and Financial Bid from **reputed central Government PSUs** which have the mandate to execute SITC of CCTV Surveillance System and Video Analytics Solution related works and having expertise, experience and capabilities in the field of IT infrastructure and CCTV Surveillance. Both the envelop should be placed in a bigger envelop superscribed with Technical and Financial Bid for “**Supply, Installation & Commissioning of CCTV Surveillance System and Video Analytics Solution at AIIA -New Delhi**”.

**1. Description of the item(s) is given below**

S.no	Item description	Required Quantity/work scope	Estimated Cost (in ₹)
1	Supply, Installation, Testing & Commissioning of CCTV Surveillance System and Video Analytics Solution at AIIA, New Delhi.	As given in Chapter-1V	₹6.50 Crore

*Asin*

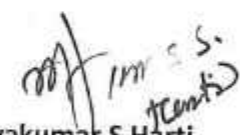
## 2. Schedule of RFP

S.No	Activity Description	Schedule	
1	NIT No:-	Z-50/180/2024-AIIA	
2	Availability of Tender Document	The tender document can be downloaded from the AIIA web site <a href="http://www.aiaa.gov.in">http://www.aiaa.gov.in</a> or from the CPP portal <a href="https://eprocure.gov.in/epublish/app">https://eprocure.gov.in/epublish/app</a>	
3	Document download start date & Time	28/02/2025	18:00 Hrs
4	Seeking clarification end date & Time	07/03/2025	15:00 Hrs
5	Bid submission start date & Time	07/03/2025	15:30 Hrs
6	Bid submission end date & Time	21/03/2025	15:00 Hrs
7	Technical Bid opening date & time	21/03/2025	15:30 Hrs
8	Minimum Validity of tender offer	180 days from the date of opening of technical bid	
9	Tender Document fee	Nil	
10	EMD	3% of the bid amount.	
11	Performance Security	8% of the bid amount after award of contract.	

3. **Submission of Tenders:** The bid along with the necessary documents should be dropped in the Tender Box placed at Central Store, 3rd Floor, Academic Block, the All India Institute of Ayurveda (AIIA) New Delhi on any working day/working hours and up to stipulated date and time. The bid document should be under two bid system (i) Technical Bid and (ii) Financial Bid, i.e. technical bid and financial bid should be in two different envelop which be placed in a bigger envelop.
4. **Clarification on bid documents:** Clarification on bid document may be sought by the bidders as per prescribed schedule over email address [store-keeper4@aiaa.gov.in](mailto:store-keeper4@aiaa.gov.in)
5. **Amendments:** Any amendments/corrigendum related to bid document, for any reason whether in its own initiative or in response to clarification requested by bidders, will be published on website of Institute and on CPPP only. Bidders should check these amendments regularly. AIIA shall not be responsible to notify such amendments/corrigendum to individual bidders.
6. All India Institute of Ayurveda (AIIA) reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document or to reject any or all Bids without assigning any reason. The decision of the Director, AIIA in this regard shall be final and binding on all.
7. **Earnest Money:** Earnest money by means of a Bank Demand Draft of **Rs. 19,50,000/ (Rupees Nineteen Lakh, Fifty Thousand only)** may be enclosed with the quotation (Technical Bid). It is also clarified that the quotations received without earnest money will be summarily rejected. The Bank Demand Draft may be prepared in the name of "Director, AIIA, New Delhi".
  - a) No request for transfer of any pervious deposit of earnest money or security deposit or payment of any pending bill held by the institute in respect of any previous work will be entertained.

b) Tenderer shall not be permitted to withdraw his offer at any stage or modify the terms and conditions thereof. In case the bidder fails to observe and comply with stipulations made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited to the AIIA, New Delhi.

c) The Tenders without Earnest Money will be summarily rejected. d) No claim shall lie against the AIIA, New Delhi in respect of erosion in the value or interest on the amount of EMD

  
Dr. Shivakumar S Harti  
Store Incharge, AIIA

AIIA

## Chapter-II

### Instructions for Bidders:-

1. The bidders have to complete the entire installation and setting up of Supply, Installation, Testing & Commissioning of CCTV Surveillance System and Video Analytics Solution within the given items and hand over to the Institute within contract period.
2. Tender has been invited under two bid systems. Hence all instruction should be followed properly as mentioned in bid document.
3. All envelopes should be super-scribe as **"Technical Bid for Supply, Installation & Commissioning of CCTV Surveillance System and Video Analytics Solution at AIIA, New Delhi."** / **"Financial Bid for Supply, Installation & Commissioning of CCTV Surveillance System and Video Analytics Solution at AIIA, New Delhi"** as the case may be. Both the bids should be kept in a bigger envelop super scribe with **Bid for "Supply, Installation & Commissioning of CCTV Surveillance System and Video Analytics Solution at AIIA, New Delhi."**
4. All the annexure/declaration and tender documents should be signed by bidders. If these are signed by a representative, an authorization letter issued after tender publishing dated must be attached. **Tender submitted in loose sheet/unsigned shall not be considered.**
5. The pages of tender document to be submitted by bidder should be properly numbered and an index with proper page number should be attached with the tender document.
6. Rates quoted in respect of tender should be **typed only. Any cutting, overwriting shall not be considered.**
7. The bidder shall quote rates in Indian Rupees (INR). Rates quoted in other currency shall be treated as non- responsive and will be rejected.
8. Only technically qualified bidders will be considered for financial evaluation. Financial bid opening date and time will be intimated to technically qualified bidders only.
9. Technical compliance sheet must be attached along with catalogue where in the technical compliance will be intimated properly. **Interested bidders may obtain further information from the office.**
10. It is responsibility of bidders to ensure timely submission of bids as per given schedule and must be dropped in Tender Box. Bids received after due date will not considered.
11. In event of the above-mentioned date being declared as holiday/closed day for the AIIA, the tender event will be postponed for the next working day.
12. Price Preference Policy and Exemption for submission of various eligibility criteria documents to the Bidder registered under Make in India Initiative:- The bidders who are registered under **Make in India Initiative** and producing their products under the **"Make in India Policy of Government of India"** shall be given price preference as per Govt. of India applicable Rules and Guidelines on submission of relevant certificate for availing the price preference and exemption for submission of exempted documents against this bid along with their Pre- Qualification Bid Documents. If the certificate is not uploaded along with

their offer, it will be treated as normal bidder. Producing certificate at later stage will not be considered.

**13.** Bidders are advised to go through the Make in India initiative and Price Preference Policy before opting the same for availing benefit under this initiative. (a) It should be noted that this tender is subject to the provisions contained in Government of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (Public Procurement Section) Order no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and all other relevant orders issued by the Government of India from time to-time and subsequent guidelines issued by the Ministry of Electronics & Information Technology. The 'Class-I local supplier / Class-II local supplier at the time of tender bidding or solicitation shall be required to indicate percentage of local content and provide self-verification that the item offered meets the local content requirement for Class-I local supplier/Class-II local supplier, as the case may be. They shall also give details of location(s) at which the local value addition is made. (b) In cases of procurement for a value in excess 10.00 crore, the 'Class-I local supplier/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company in the case of companies) or from practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content (c) False declaration will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the GFR-2017 for which a bidder or its successors can be debarred for up to two (02) years as per Rule 151 (iii) of the GFR-2017 along with such other actions as may be permissible under law.

**14. Site Visit:** - The interested bidders may visit the proposed site to assess the requirement and better understanding of works proposed. The visit must be on working day only between 1300 to 1700 Hrs. and expenses of visit shall be borne by bidders only. Preferably before submission of clarification.



## Chapter-III

### General Terms and Conditions: -

1. Tenders should be quoted only by the Central Government PSUs having sufficient experience and expertise in Supply, Installation, Testing & Commissioning of CCTV Surveillance System and Video Analytics Solution. Bidder should have the OEM authorization from the OEM of major devices which are to be used for CCTV Surveillance System and Video Analytics Solution in the format given at "Annexure-III". The bidder is responsible for the supply of stores. If the Principal Manufacturer withdraws rights of distribution from the bidder during validity period of rate contract, Director, AIIA, DELHI has right to cancel the eligibility of the bidder and accept the candidature of new coming authorized distributor. **Any authorization certificate issued in the past for participating in any specific tender shall not be considered as a valid authorization by OEM.**
2. **Bidders shall have to submit a detailed proposal and plan regarding execution of works proposed to be carried out, before finalization of technical evaluation of bids as mentioned in this bid. This representation will be before a committee duly constituted by Competent Authority.**
3. The offered CCTV/Video analytic devices/IT devices/equipment's should be latest and compatible with the existing CCTV set up of the Institute for smooth integration and functioning.
4. **Patent Rights:** The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.
5. **Bidders must have attached affidavit of self-certification regarding local content as prescribed by Central Government/Nodal Ministry for CCTV/ Video analytic system Devices etc.**
6. **Country of Origin**
  - i. All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
  - ii. The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
  - iii. The country of origin may be specified in the Price Schedule.
  - iv. **Bidders may ensure the compliance and guidelines mentioned in Office Memorandum No. 6/18/2019-PPD dated 23rd July 2020 issued by Department of Expenditure, Ministry of Finance and a declaration as per above O.M. must be furnished.**
7. **Terms of Delivery:** Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement and Supply & Delivery Clause in General Terms and Conditions Section. Please note that the time shall be the essence of the contract.

8. Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement: The supplier will arrange transportation of the ordered goods as per its own procedure up to Consignee Site (i.e. AIIA, DELHI, GAUTAMPURI, SARITA VIHAR, DELHI- 110076).

9. **Tender currencies:** The Bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees (INR) in the Financial Bid Format given at Annexure-V. A Bidder quoting imported goods located within India shall produce documentary evidence of the goods having been imported and already located within India, in case their bid is found to be the lowest one after opening of financial bid.

**10. Tender Prices:-**

i. If there is more than one schedule in the Schedule of Requirements, the Bidder has the option to submit its quotation for any one or more schedules. However, while quoting for a schedule, the Bidder shall quote for the complete requirement of goods and services as specified in that particular schedule.

ii. While filling up the columns of the Financial Bid Price Schedule, for domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

a. Any taxes and duties including Custom duty and/or GST, which will be payable on the goods in India if the contract is awarded;

b. Charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage), Loading & Unloading and other local costs etc. incidental to delivery of the goods to their final destination will bear by Bidder;

c. The price of Incidental Services, as mentioned in Schedule of Requirement and Price Schedule.

d. The prices of Site Modification Work (if any), as mentioned in Schedule of Requirement, Technical Specifications and Price Schedule.

e. The Rate quoted for a product or services should be including all taxes. No additional charge/tax etc. will be paid by AIIA, if claimed by Supplier at later stage.

f. Rates quoted will remain valid and fixed for entire bid validity period and/or for extended period. Bidder will not be allowed the change/modify rates during bid validity period.

g. Rate quoted should be unit wise and rate cannot be quoted beyond Maximum Retail Price (MRP).

h. The price of annual CMC, as mentioned in Schedule of Requirement, Technical Specification and Price Schedule (**Wherever applicable**).

**Additional information and instruction on Duties and Taxes:**

11. (a) **Octroi Duty and Local Duties & Taxes:** Normally, goods to be supplied to Government Departments against Government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned Government Department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such

duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser. The purchaser will issue the certificate to the supplier within a week positively from the date of receipt of request from the supplier. However, if a local body still insists upon payment of receipt of such duties and taxes, the same shall be borne by the supplier. The institute will not be responsible for any such payments/reimbursement etc.

**(b) Goods and Services Tax (GST) as per GST Act 2017:** If a Bidder asks for Goods and Services Tax to be paid extra, the rate and nature of Goods and Services Tax applicable should be shown separately in their GST Compliant Invoices. The Goods and Services Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction is legally liable to Goods and Services Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser

**(c)** The need for indication of all such price components by the Bidders, as required in this clause (viz., General Terms and Condition **Clause 10**) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected Bidder on any of the terms offered.

## **12. Warranty for 60 months (to be submitted from OEM on points below)**

I. Bidder have to submit a written guarantee/warranty from the manufacturers stating that the Devices/equipment being offered is the latest model as per the specifications and the spares for the equipment will be available for a period of at least 5 years after the guarantee/warranty period.

II. The manufacturer will have to keep the institute informed of any up-date of the equipment over a period of next 5 years and undertake to provide the same to the institute at no extra cost and also, they will supply regularly any items of spare parts requisitioned by the purchaser for satisfactory operation of the equipment till the life span of the equipment, if and when required on agreed price.

III. Guarantee/warranty to the effect that before going out of production of spare parts, the manufacturer and/or Bidders will give adequate advance notice to the purchaser of the equipment so that the later may undertake to procure the balance of the life time requirements of spare parts.

IV. The Guarantee/warranty to the effect that the manufacturer will make available to the institute, the blue-prints and drawing of the spare parts if and when required in connection with the equipment.

V. The supplier has to provide warranty comprehensively for 60 months Onsite Warranty including Spare Parts & Labour etc. that the Equipment/Stores supplied under the contract is new, unused and in corporate all recent improvements and design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the Equipment/Stores supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied Equipment under the conditions prevailing in India.

- No conditional warranty like mishandling, manufacturing defects etc. will be acceptable.
- Comprehensive Warranty as well as Comprehensive Maintenance contract should be inclusive of all



accessories.

- Replacement and repair will be undertaken for the defective Equipment/Stores.
- Proper marking has to be made for all spares for identification like printing of installation and repair dates.

**VI.** Upon receipt of such notice, the supplier shall, **within 4 hours on a 24 X 7** basis respond to take action to repair or replace the defective Equipment/Stores or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/ Equipment / Stores after providing their replacements and no claim, what so ever shall lie on the purchaser for such replaced Parts/Equipment/Stores thereafter. Non-replacement will attract appropriate penalty including forfeiture of performance security on repetition of such misconduct.

**VII. The bidders shall have to provide one resident Engineer at AIIA premises during working hours from Monday to Saturday.**

**VIII.** The Bidder hereby declares that the goods/equipment/stores/articles supplied to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and the particulars contained/mentioned in the clauses hereof and the Bidder hereby guarantee/Warranty that the said goods / equipment / stores/ articles conform to the description and quality aforesaid. The purchaser will be entitled to reject the said goods/equipment/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality as follows:

- a. Bidder should state categorically whether they have fully trained technical staff or installation/commissioning of the equipment and efficient after sales services.
- b. It is specifically required that the Bidder/Supplier will supply all the operating and service manuals along with blue-prints and drawings including circuit diagram of the equipment supplied as well as its components.

**IX.** If the supplier, having been notified, fails to take appropriate action to replace the defect(s) **within 4 hours on 24X7 basis**, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier. In case of failure of rectification within given time period, AIIA will take necessary for rectification at their own end. The cost incurred on such rectification shall be borne by the service provider. Additional 5% of cost incurred, will also be charged as administrative expenditure.

**13.** Bidders are required to quote strictly as per specification of the equipment. If, deviation from specification, it must be brought out clearly giving deviation statement in **Annexure-VII**.

**14.** Additional features (in case of equipment), if any, should be listed separately in the offer. However, technical and financial evaluation will be done as per the specification mention in the **Chapter-IV**. The bidder should submit an undertaking for acceptance of Terms & Conditions at **Annexure-VIII** including to the effect that they have necessary infrastructure for maintenance of the equipment and will provide accessories/spares as and when required by the indenter for 05 years after expiry of the Warranty period.

**15. Applicability of Anti-Profiteering Rule under GST Act 2017:** No item should be quoted with price more

than the M.R.P. by any Supplier Agency to AIIA DELHI. The MRP is required to be clearly mentioned on each of the supplied item/its packaging in their offered pack size. The prices should be quoted strictly in accordance with unit/pack Size and Strength/Potency mentioned in the schedule of Requirement at **Chapter-IV.**

The Anti-Profiteering Rule under GST Act 2017 is applicable against this Tender Enquiry on which the Supplier Agency mandatory have to pass on the benefit due to reduction in rate of tax to the AIIA DELHI by way of commensurate reduction in their prices. If any Supplier Agency found defaulter for following of above said rule (i.e. passing all the benefits of GST Tax Regime price reductions to AIIA DELHI), the necessary action deemed fit as per GST Act 2017 shall be initiated against such defaulter firm.

**16. Fall Clause:** If at any time during the execution of the contract, the Contractor/Manufacture/Distributor/Dealer reduces the sale price or sells or offers to sell such stores, as are covered under the contract, to any person/organization including the purchaser or any department of Central Government or any other AIIA/PSUs at a price lower than the price chargeable under the contract during the Current Financial Year, he shall forthwith notify Director, AIIA DELHI. The necessary difference amount about such reduction or sale or offer of sale to the purchaser and the price payable under the contract for the stores supplied after the date of coming in to force of such reduction or sale or offer of sale shall stand correspondingly reduced and deposited to AIIA DELHI by the Bidder or AIIA DELHI will deduct from the pending bills/Performance Security Deposit to recover the loss to the Government.

**17.** The Director, AIIA, DELHI has full authority to take into account the performance of manufacturer/authorized dealer or distributor / bidder and they should submit a latest performance certificate (not older than previous financial year 2023-24) from any other Govt. Hospitals/Institutions/PSUs to testify the proper dealing & performance as well as installation and maintenance of IT infrastructure.

**18. Terms of Delivery of Products/completion of works and Penalty/Liquidation Damage:**

I. Delivery of stores shall be F.O.R to AIIA DELHI. The AIIA DELHI is not liable for payments on account of Freight/Taxes/Expenditures which are to be paid inclusively by the suppliers.

II. The selected Bidder shall be bound to supply and complete the works of Supply, installation, Testing and commissioning with a period of **150 days** from the date of receipt of work order. Thereafter suitable action as deemed fit, will be initiated. The hospital will recover the general damages or extra expenditure incurred in the risk purchase at the risk and cost of the bidder and amount paid in excess shall be deducted from their pending bills. The above shall be in addition to forfeiture of Bid Security and black listing of the firm depending upon the circumstances of the default/gravity of the case.

III. The period of delivery strictly to be followed by the Supplier Agency as per time period communicated through Purchase/Supply Order through e-mail/hard copy through speed post. The penalty of 0.5% of the value of order per week for delay in completion of works subject to maximum of 10% of awarded value. No supplies will be entertained thereafter, and it will be treated as withdrawal by the bidder for which action will be taken as per the bid security declaration and other relevant rules/guidelines issue by Government in this regard. Part supplies will not be accepted / allowed at AIIA DELHI.

#### **19. INSPECTION OF SUPPLIES & ACCEPTANCE:**

Inspection will be done by the Committee duly constituted by Director, AIIA, Delhi and or its authorized representatives in AIIA DELHI Hospital premises at designated place in presence of supplier or its representative. Any cost incurred for carry out the inspection/testing etc., shall be borne by Supplier Agency. **The supplied goods/works will be accepted by Institute on approval of the Committee. The Bidders shall have to obtain prior approval of the Committee for the works at different stage as and when required.**

#### **20. INCIDENTAL SERVICES:**

The supplier shall be required to perform the following services at Consignee Site:

- a) Installation & commissioning, Supervision and Demonstration of the Equipment/Goods
- b) Providing required jigs and tools for assembly, minor Civil/Electrical/ Plumbing / any other needed engineering works etc. required for the completion of the installation.
- c) Training of Consignee's Doctors, Staff, operator etc. for operating and maintaining the Equipment/Goods, if required.
- d) Supplying required number of operation & maintenance manual for the goods.

#### **21. DISTRIBUTION OF DISPATCH DOCUMENTS FOR CLEARANCE/RECEIPT OF GOODS**

The supplier shall send all the relevant dispatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract. Within 24 hours of dispatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract/purchase Order, the complete details of dispatch and supply the following documents by registered post/ speed post/courier (or as instructed in the contract):

- i. Three copies of supplier's invoices showing contract number, goods description, quantity, unit price and total amount;
- ii. Two copies of packing listed identifying contents of each package; if applicable
- iii. Certificate of origin for goods of foreign origin;
- iv. Insurance Certificate, if applicable
- v. Manufacturers/Supplier's warranty certificate & In-house inspection certificate.
- vi. Work completion certificate from the respective Department

**22. Taxes, Duties, Incidental Services and Warranties:** Supplier shall be entirely responsible for all taxes, duties, fees, levies, incidental Services, Warranties etc. incurred until delivery of the contracted goods to the purchaser.

**23. Terms and mode of payment:** Final Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner:

**24.1 Payment for Goods:** Payment shall be made in Indian Rupees as specified in the contract in the following manner: -

- i. **On Mobilization of work, 20% of the total value of work will be paid.**
- ii. **On supply, Installation, Testing and Commissioning of services and work, 60% of the total value of**

**work will be paid. Balance 20% will be released after successful run of the CCTV setup and Video Analytics System, subject to recovery of liquidation damage, if any.**

**(a)** On successful completion of supply, Installation, testing and Commissioning of service and work (Preferably within three weeks' time of "Consignee Receipt Certificate (CRC)" and Subject to submission of following documents:

1. Three copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
2. Two copies of packing list identifying contents of each package.
3. Inspection certificate, if any.
4. Insurance Certificate, if any.
5. Certificate of origin for imported goods.
6. Consignee Receipt Certificate in original issued by the authorized User Department representatives/Concerned Stores Representative of the consignee.

**(b)** On successful Operations of the entire CCTV setup and Video Analytics System:-

Balance twenty percent (20%) payment would be made against 'successful operation of the entire CCTV setup and Video Analytics System and issuance of satisfactory report from the reviewing committee/user department subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

**24.2.** The supplier shall not claim any interest on payments under the contract.

**24.3.** Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time by the Government.

**24.4.** The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.

**24.5.** While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

**24.6.** While claiming reimbursement of duties, taxes etc. (like custom duty and/or GST or any other taxes) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forth with.

**24.7.** In case where the Service Provider is not in position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions: -

✓ The Service Provider will make Equipment/goods for any defect or deficiency that the consignee(s) may

report within six months from the date of dispatch of goods.

✓ Delay in supplies, if any, has been regularized subject to deduction of applicable LD.

✓ The contract price where it is subject to variation has been finalized.

✓ The service provider furnishes the following undertakings on the of appropriate value.

I/We, -----certify that I/We have not received back the Inspection Note Duly received by the consignee or any communication from the purchaser or the consignee about non-receipt/non completion of works, shortage or defects in the goods supplied/works assigned. I/W agree to rectify defect or deficiency that the consignee/user may report within three months from the date of receipt of this balance payment.

**25. Sub-Letting of works:-** Selected Bidders shall not be allowed to sub-let the works to any other agency. In case of any unprecedented situation, it can be done only after approval of Competent Authority in AIIA.

**26. OTHERS:**

Technical Evaluation Committee/Procurement Committee and other committees as duly constituted by the Competent Authority will decide regarding approval of Items, Rates and Quantities required to be procured (increase/ decrease in either side as indicated at **Chapter IV** for different categories of Equipment /items as per requirement of AIIA, DELHI. Decision of the Director, AIIA will be final and binding to all parties. The Bidder shall not be allowed to transfer, assign, pledge or sub-contract its rights and liabilities under this contract to any other agency (ies) without prior written consent of the Director, AIIA, DELHI. If it is found that the firm has given sub-contract to another Agency, the contract shall stand canceled & the performance security deposit of such Bidder shall be forfeited by AIIA, DELHI. The AIIA, DELHI shall not be responsible for any financial loss or other damaged or injury to any item or person deployed/supplied by the Supplier Agency in the course of their performing the duties to this office in connection with purchase order / supply order for supplying / installation/commissioning of the ordered Equipment /Stores/Goods /Items /service/works at AIIA, DELHI.

**27. FORCE MAJEURE:**

Any omission or fail to carry out the provision of the contract by the supplier shall not give rise to any claim by any party, one against the either, if such failure of omission or failure arises from an act of God, which shall include all acts of natural calamities such as fire, flood, earthquake hurricane or any pestilence or from civil strikes, compliance with any stature and/or regulation of the Government, lookouts and strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state or insurrection, provided that notice or the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to 'force majeure' conditions.

**28. DISPUTES AND ARBITRATION:**

All disputes or differences arising during the execution of the contract shall be resolved by the mutual discussion failing which the matter will be referred to an Arbitrator who will appointed by the Director,

AIIA, DELHI for Arbitration for settlement of disputes in accordance with Arbitration & Conciliation Act 1996 or its subsequent amendment, whose decision shall be binding on the contracting parties.

**29. LAW GOVERNING THE CONTRACT AND JURISDICTION:**

The contract Governed under Contract Act 1872 Indian Competition Act 2002 and instructions thereon from the government of India issued in this regard from time to time. The Court of DELHI shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

**30. PERFORMANCE SECURITY DEPOSIT:**

The successful Bidder will be liable to deposit 8% of value of the Contract/Purchase Order as Performance Security Deposit in favor of "Director, AIIA DELHI" by way of "Performance Bank Guarantee" in the format given at Annexure-VI in the form of Fixed Deposit Receipt" from Scheduled Nationalized/Commercial Bank refundable after expiry of the tenders/or after the completion of 5 year warranty period + 2 months (valid for i.e. 62 months) in case of supply of Equipment, subject to successful fulfillment of terms and conditions, on receipt of requisite No dues certificate from the concerned departments/authorities. Security Deposit is liable to be forfeited if the bidder withdraws or impairs or derogates the bid in any respect. For CMC (if applicable) after expiry of warranty period, the 3% Security Deposit of total CMC cost shall be deposited by the Bidder to AIIA, DELHI in the format given at "Annexure-VI".

**31. RECOVERY OF EXCESS PAYMENT MADE TO SUPPLIER AGENCY:**

If a result of post payment audit any over payment is detected in respect of any supply/works done by the supplier Agency or alleged to have been done by the Agency under this Tender Enquiry, it shall be recovered by the Institution from the Agency and Agency is liable to be deposit back the excess extra amount received by them from their agreeable amount as per Purchase Order/Work Order from AIIA DELHI within 30 days' time period as and when they will receive written request from AIIA DELHI in this connection.

**32. UNDER PAYMENT TO BE MADE TO SUPPLIER AGENCY:**

If a result of post payment audit any under payment is detected in respect of any supply/work done by the supplier Agency under this Tender Enquiry, it shall be duly paid by the Institution to the concerned Supplier Agency.

**33. RESPONSIBILITY OF SUPPLIER AGENCY FOR PROVIDING COPIES OF RELVANT RECORDS:**

The Supplier Agency shall provide the copies of relevant records during the period of contract or otherwise even after the contract is over as and when asked by AIIA, DELHI. No bidder/or his representative shall bring or attempt to bring any political or other outside influence to bear upon any superior authority or hospital functionaries to further this business interest. In doing so, tender of the concerned bidder will be rejected without assigning any reason.

**34. SERVICE SUPPORT AND REDRESSEAL OF COMPLAINT:**

All Bidders have to provide a dedicated/Toll free No. for service support and an Escalation Matrix along

with Name, Designation and Mobile number of contact person.

**35. SUBMISSION OF MORE THAN ONE OFFER:**

If any bidder is participating in this tender through more than one offer in the capacity of Director/ Proprietor/Partnership in other firms who can access the information of other bidders through any means and mode of connection. If at any stage it is found the formation of cartel, the involve bids will be rejected and bidders will be blacklisted.

**36. BID EVALUATION CRITERIA:**

**(i)** All the bidder shall be primarily evaluated on pre-qualification criterion viz having submitted all relevant documents, fulfilling statutory obligations/compliance, Experience, Turnover etc.

**(ii)** The bidders must submit the documents as mentioned in the **Chapter -V** of the bid document. All the document should be submitted along with bid submission. Document submitted at later stage will not be accepted.

**(iii)** Only technically qualified bidders shall be considered for financial evaluation.

**(iv)** Final Financial value will be based on rate quoted (for works along with required items (including passive items). Price quoted shall be considered final including all taxes/charges etc.



## Chapter-IV

### Scope of Work and Technical Details along with Requirement-

- **Scope & Objective:** To provide a comprehensive CCTV surveillance system Integrated with video analytics system at AllIA, New Delhi Campus. The solution aims to enhance security, patient safety, operational efficiency, and compliance with regulatory standards.
- **Key Security Concerns:**
  - Unauthorized access to restricted areas.
  - Patient and staff safety.
  - Monitoring of sensitive areas such as the pharmacy and operating rooms.
  - Ensuring compliance with health and safety regulations.
  - Lift Emergency Calling System
  - Parking Management System
  - 24/7 Video Analytics and Surveillance
  - Perimeter Protection
- **System Components**

**CCTV Cameras:** High-definition, IP-based cameras with night vision, wide dynamic range, and PTZ (Pan-Tilt-Zoom) capabilities.

  - ✓ **A PTZ (Pan-Tilt-Zoom)** camera is a type of surveillance camera that offers advanced control over the camera's orientation and zoom capabilities. These cameras are widely used in various security and monitoring applications due to their flexibility and ability to cover large areas.
  - ✓ **A Bullet camera** is a type of video surveillance camera for Perimeter surveillance
  - ✓ **Dome cameras** used for security and surveillance within buildings.
  - ✓ **A Corner mount camera** is a type of surveillance camera designed specifically to be installed in the corner of a room or building.
  - ✓ **A Multi-sensor camera** is a surveillance camera that integrates multiple sensors or camera modules into a single unit. This design allows it to capture video from several perspectives or at various focal lengths simultaneously, providing enhanced coverage and versatility.
  - ✓ **A Dual sensor camera** is a surveillance camera that features two distinct sensors or camera modules integrated into a single unit. This design allows it to capture video from two different perspectives or at different focal lengths simultaneously, providing enhanced coverage and versatility.
- **Video Management System (VMS):**

Centralized platform to manage video feeds, recordings and analytics data.



- **Video Analytics:**

AI-driven analytics for real-time alerts and insights, including facial recognition, intrusion detection, loitering detection, and object left/removed detection.

- **Storage Solution:** On-premise and cloud-based storage options with redundancy for data integrity.

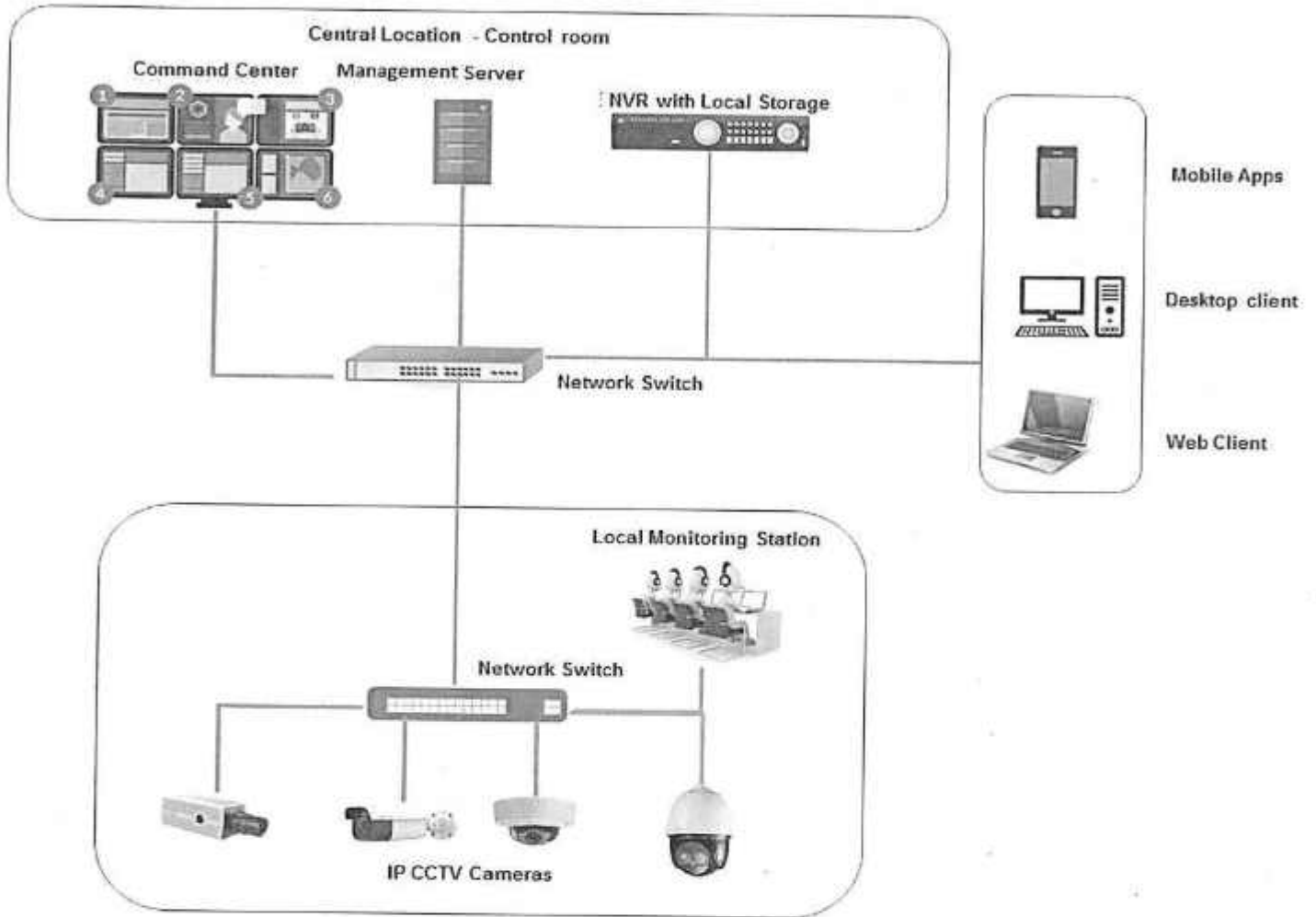
- **Network Infrastructure:** High-bandwidth, secure network to support the system.

- **Compliance of MHA (Police Modernization Division, Prov-III Desk), Govt. of India order No. IV-24011/22/2020- Prov-I/270 dated 26.04.2024:** Bidder shall abide to strict adherence of relevant guidelines of "Amendment to the electronics and information technology goods (requirement of compulsory registration) order, 2021" (essential requirement of security of CCTV) issued by Ministry of electronics and Information Technology (IPHW Division).

### Key Features:

- ✓ **24/7 Monitoring:** Continuous surveillance with live video feeds accessible from a centralized security control room.
- ✓ **Object Recognition:** For identifying unauthorized individuals and managing access control.
  
- ✓ **Behavioral Analytics:** Detects unusual behavior such as loitering, aggression, or someone falling.
- ✓ **Access Control Integration:** Synchronization with hospital access control systems to enhance security.
- ✓ **Alarm Integration:** Trigger alerts for security breaches, unauthorized access, or emergency situations.
  
- ✓ **Data Privacy Compliance:** Encryption and data protection measures to comply With NDAA, TAA Compliance.
- ✓ **Enhance visibility:** Installing hospital CCTV systems in crucial areas like the ER provides complete coverage and boosts safety.
- ✓ **Detect faster:** Hospital video surveillance with 360-degree views allow unusual activities to be detected immediately.
- ✓ **Keep data safe:** Our cybersecurity team works at every stage to keep hospital data.

# System Architecture



*[Handwritten signature]*

## Bill of Material:-

S.no.	Description	Quantity
1	5 MP Fixed Bullet Camera : As per Technical Specification	31
2	SITC of 5 MP Fixed Dome Camera : As per Technical Specification	125
3	20 MP (4x5MP) PTRZ IR Multi Sensor Camera: As per Technical Specification.	2
4	Dual Sensor Camera: As per Technical Specification	9
5	5 MP Corner Mount Camera : As per Technical Specification	4
6	PTZ Camera (30 X Optical Zoom , 12x Digital Zoom): As per Technical Specification	5
7	Video Management Software : As per Technical Specification and BOQ	176
8	Video Analytics- Crowd and People Counting : As per Technical Specification	2
9	Perimeter protection for Boundary Wall : As per Technical Specification and BOQ	18
10	Integrated license plate recognition LPR system.: As per Technical Specification	4
11	Option for controlling and documenting vehicle movements at entrances and exits using the Vehicle Access Manager. : As per Technical Specification and BOQ	1
12	Analytics Server for software solutions: As per Technical Specification	1
13	Network Video Recorder System (128 Channels) : As per Technical Specification	2
14	Client work stations for software solutions: As per Technical Specification and BOQ	6
15	Boom Barrier: As per Technical Specification	1
16	Lift Communication & Operation with Single emergency call button: As per Technical Specification and BOQ	9

17	24 Port core switches with minimum 24x1G SFP ports, 4x10GSFP+ ports or higher along with SFP+ Modules: As per Technical Specification	2
18	8 port POE with 200 Watt POE Budget and 4 x 10sfp+ uplink with SFP: As per Technical Specification	36
19	NGFW- Firewall	1
20	LED Video Panel of Size 55", 1.8 MM Bezel Brightness 500 nits with Push Pull Bracket: As per Technical Specification	4
21	6 U Rack Indoor With Accessories: As per Technical Specification	31
22	6 U Rack Outdoor With Accessories: As per Technical Specification	6
23	42 U Rack Indoor With Accessories: As per Technical Specification	1
24	SITC of 10 KVA Ups with 30 Minute Backup: As per Technical Specification	1
25	Network points, Included Cat 6 UTP Cable , Singal Mode Fiber Cable , CAT 6 and Fiber Patch Cord, 4 Mtr. Pole and Bullet Camera Mount With Accessories.	176
26	One time Installation, Testing, Commissioning and 5 years support of Active and Passive Components.	1



**Technical Specifications: -**

<b>Bullet Camera</b>			
<b>Make:</b>			
<b>Model No:</b>			
<b>S.No</b>	<b>Parameter</b>	<b>Description</b>	<b>Compliance (Yes/No)</b>
1	Image Sensor	1/2.8" Progressive Scan CMOS Sensor	
2	Effective Pixels	2560 x 1920	
3	Min. Illumination	Color 0.015Lux @ 1/4, F1.6, 50IRE, AGC ON; B/W 0.015Lux @ 1/4, F1.6, 50IRE, AGC ON; 0Lux with IR ON	
4	Shutter Speed	1/4s to 1/32000s	
5	S/N Ratio	≥52 dB AGC ON	
6	Memory Capacity	1GB RAM and 512MB Flash	
7	Focal Length	2.7mm to 13.5mm	
8	Iris Type	P-Iris	
9	Video Compression	H.265 / H.264 / MJPEG	
10	Resolution with aspect ratio	2560 x 1920, 800 x 600 @ 4:3 2560 x 1440, 1920 x 1080, 1664 x 936, 1280 x 720, 1024 x 576, 816 x 464, 800 x 448, 640 x 360, 480 x 272 @ 16:9	
11	Max. Frame Rate	30fps @ all resolution (up to 60 fps on resolution of 1920x1080 or lower with TWDR off)	
12	Multiple Streaming	Triple streams	
13	Main Stream (H.265/H.264/MJPEG)	2560 x 1920 / 2560 x 1440 / 1920 x 1080 / 1664 x 936 / 1280 x 720 ( 1 - 30fps)	
14	Sub Stream (H.265/H.264/MJPEG)	1280 x 720 / 1024 x 576 / 800 x 600 / 816 x 464 / 640 x 360 / 480 x 272 (1 - 30fps)	
15	Third Stream (MJPEG)	704 X 576 (15fps)	
16	Quality Control	VBR, CBR & CVBR supported	
17	Image Setting	time stamp, text overlay, flip & mirror, ROI, Saturation, Brightness, Contrast, Wide Dynamic, Sharpen, white balance, video rotation, AGC etc	

18	EIS	Yes	
19	Slow Shutter	Yes	
20	Audio Communication	Bi-directional audio (2-way), 1IN/1OUT	

21	Audio Compression Format	G711ulaw	
22	Audio Noise Reduction	Supported	
23	Day & Night	True Day Night (TDN) with automatic removable cut filter	
24	Wide Dynamic Range	True WDR, 120dB	
25	IR Distance	Up to 70m	
26	Image Features	Defog, Multiple Exposure Method, 2D/3D DNR	
27	Corridor Pattern	Supported	
28	Video Privacy	8 zones video mask	
29	AI Object Analytics	Object Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Trigger Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned / Removed, Enter, Exit, Crowd, Queue Object Sub-Classes: Person Clothing Colour, Vehicle Colour	
30	AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)	
31	Alarm Triggers	Motion detection, AI video analytics, Blur and Tamper AI, Alarm input	
32	AI Blur Detection	Supported	
33	Event Triggers	FTP Upload, CIFS, SMTP, Snapshots, SD Card Record, SIP Call , Audio clip playback	
34	Motion Detection Zones	3 Zones	
35	Edge Storage	Built-in micro SD card slot, up to 1TB (Encrypted Storage)	
36	Record Triggers	Motion detection, AI video analytics, Blur and Tamper AI, Alarm input	
37	Recording Format	MP4	
38	Network Protocol	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast,	

		Multicast, NTP, SMTP, WS-Security, SNMP, CIFS, FSTP, UPnP™, SIP	
39	Pre-Alarm Recording	Supported	
40	Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission	
41	API	ONVIF Profile S, G, T & M	

42	Cyber Security	Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming	
43	Web Browser Supported	MS Edge, Firefox, Safari, Chrome	
44	Network	1 RJ45 10M/100M self-adaptive ethernet port	
45	Audio	Internal MIC, Line IN × 1, Line OUT × 1	
46	Video Output	CVBS video output ( BNC × 1 )	
47	Alarm	Alarm IN x 1, Alarm OUT x 1	
48	Hardware Reset & Factory Reset Button	Yes	
49	Power Supply	PoE & 12VDC support power supply failover	
50	Operating Temperature	Temperature - 40°C to 60 °C	
51	Operating Humidity	0% ~ 95% relative humidity	
52	Ingress Protection	IP67	
53	Vandal Resistance	IK10	
54	Certification	CE, FCC, UL & BIS,NDAA	
55	Warranty	3 year warranty	

**5MP Dome Camera**

**Make:**

**Model No:**

S.No	Parameter	Description	Compliance (Yes/No)
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1	Image Sensor	1/2.8" Progressive Scan CMOS Sensor	
2	Effective Pixels	2560 x 1920	
3	Min. Illumination	Color 0.015Lux @ 1/4, F1.6, 50IRE, AGC ON; B/W 0.015Lux @ 1/4, F1.6, 50IRE, AGC ON; 0Lux with IR ON	
4	Shutter Speed	1/4s to 1/32000s	
5	S/N Ratio	≥52 dB AGC ON	
6	Memory Capacity	1GB RAM and 512MB Flash	
7	Focal Length	2.7mm to 13.5mm	
8	Iris Type	P-Iris	
9	Video Compression	H.265 / H.264 / MJPEG	

10	Resolution with aspect ratio	2560 x 1920, 800 x 600 @ 4:3; 2560 x 1440, 1920 x 1080, 1664 x 936, 1280 x 720, 1024 x 576, 816 x 464, 800 x 448, 640 x 360, 480 x 272 @ 16:9	
11	Max. Frame Rate	30fps @ all resolution (up to 60 fps on resolution of 1920x1080 or lower with TWDR off)	
12	Multiple Streaming	Triple streams	
13	Main Stream (H.265/H.264/MJPEG)	2560 x 1920 / 2560 x 1440 / 1920 x 1080 / 1664 x 936 / 1280 x 720 ( 1 - 30fps) MJPEG only on 1920x1080 or lower	
14	Sub Stream (H.265/H.264/MJPEG)	1280 x 720 / 1024 x 576 / 800 x 600 / 816 x 464 / 640 x 360 / 480 x 272 (1 - 30fps)	
15	Third Stream (MJPEG)	704 X 576 (15fps)	
16	Quality Control	VBR, CBR & CVBR supported	
17	Image Setting	time stamp, text overlay, flip & mirror, ROI, Saturation, Brightness, Contrast, Wide Dynamic, Sharpen, white balance, video rotation, AGC etc.	
18	EIS	Yes	
19	Slow Shutter	Yes	
20	Audio Communication	Bi-directional audio (2-way), 1IN/1OUT	
21	Audio Compression Format	G711ulaw	



22	Audio Noise Reduction	Supported	
23	Day & Night	True Day Night (TDN) with automatic removable cut filter	
24	Wide Dynamic Range	True WDR, 120dB	
25	IR Distance	Up to 50m	
26	Image Features	Defog, Multiple Exposure Method, 2D/3D DNR	
27	Corridor Pattern	Supported	
28	Video Privacy	8 zones video mask	
29	AI Object Analytics	Object Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Trigger Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned / Removed, Enter, Exit, Crowd, Queue Object Sub-Classes: Person Clothing Colour, Vehicle Colour	
30	AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)	

31	Alarm Triggers	Motion detection, AI video analytics, Blur and Tamper AI, Alarm input	
32	AI Blur Detection	Supported	
33	Event Triggers	FTP Upload, CIFS, SMTP, Snapshots, SD Card Record, SIP Call , Audio clip playback	
34	Motion Detection Zones	3 Zones	
35	Edge Storage	Built-in micro SD card slot, up to 1TB (Encrypted Storage)	
36	Record Triggers	Motion detection, AI video analytics, Blur and Tamper AI, Alarm input	
37	Recording Format	MP4	
38	Network Protocol	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, Multicast, NTP, SMTP, WS-Security, SNMP, CIFS, FSTP, UPnP™, SIP	
39	Pre-Alarm Recording	Supported	
40	Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission	

41	API	ONVIF Profile S, G, T & M	
42	Cyber Security	Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming	
43	Web Browser Supported	MS Edge, Firefox, Safari, Chrome	
44	Network	1 RJ45 10M/100M self-adaptive ethernet port	
45	Audio	Internal MIC, Line IN x 1, Line OUT x 1	
46	Video Output	CVBS video output ( BNC x 1 )	
47	Alarm	Alarm IN x 1, Alarm OUT x 1	
48	Hardware Reset & Factory Reset Button	Yes	
49	Power Supply	PoE & 12VDC, support power supply failover	
50	Operating Temperature	Temperature - 40 Deg Celcius to 60 Deg Celcius	
51	Operating Humidity	0% ~ 95% relative humidity	

52	Ingress Protection	IP67	
53	Vandal Resistance	IK10	
54	Certification	CE, FCC, UL & BIS,NDAA	
55	Warranty	3 year warranty	

**20MP (4x 5MP) PTRZ IR Multisensory**

**Make:**

**Model No:**

S.No	Parameter	Description	Compliance (Yes/No)
1	Video Compression	H.264 / H.265 / MJPEG	
2	Max Frame Rate	5MP @ 30fps, 2MP @ 60fps	
3	Resolution & Aspect Ratio	2560x1920 (5MP) 4:3 2560x1444 (4MP) 16:9 1920x1080 (1080p) 16:9 1664x936 (HD+) 16:9 1280x720 (720p) 16:9	

4	Imager	Sony 1/2.8" CMOS image sensor	
5	Image Orientation Settings	None, Mirror, Flip, Flip and Mirror, Corridor (rotate 90° right or left)	
6	Video Streams	Quad Streaming (per sensor)	
7	Bitrate Control	CBR, VBR, CVBR	
8	Lens Type	Motorized Varifocal and Focus, P-Iris	
9	Focus Control	One-Touch Auto Focus or Remote Adjustment	
10	Focal Length	2.7-13.5mm	
11	Sensor Module Control	Remotely repositionable Pan, Tilt & Rotate (PTR) per sensor module	
12	Field of View Wide (H/V)	103°/74°	
13	Field of View Telephoto (H/V)	33°/25°	
14	Aperture	f/1.4 (W) , f/2.8 (T)	
15	Minimum Illumination	Color, 1/4s, 30 IRE, AGC 0.11 Lux, B/W, 1/4s, 30 IRE, AGC 0.06 Lux, W/IR 0.0 Lux	
16	IR Distance	Up to 30 m (98 ft)	
17	Dynamic Range	True WDR 120 dB Technologies	
18	SmartWDR	Supported	
19	Day/Night	True Day/Night CF Removal	

20	Picture Settings	Auto Exposure: Multiple Profiles (incl Auto, Gaming, LPR); Multiple ROI (incl AI ROI: Object, Person, Face), Smart Defog, Gain Control (Auto, Max, Manual), Flickerless White Balance: Auto Normal, Auto Wide, Manual	
21	Shutter Speed	≥ 1/10,000 to 1/4 s	
22	ONVIF Conformance	Profile S	
23	Smart Defog	Supported	
24	Privacy Zones	10 Per Sensor	
25	Alarm Input/Output	2 input, 2 output	
26	Audio	Bi-directional; 1 input, 1 output	
27	Simultaneous Users	10	
28	Supported Languages	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Danish, English (default), French, German, Hungarian, Italian, Japanese, Korean, Netherlands, Polish, Portuguese, Russian, Spanish,	

		Swedish,Turkish	
29	AI Face Detection	Supported	
30	AI Object Classification	Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Cart, Backpack, Handbag, Suitcase, Any Class ; Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue ; Sub-Classes: Person Clothing Colour, Vehicle Colour	
31	AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)	
32	AI Blur Detection	Supported	
33	AI Metadata	Supported	
34	Motion Detection Zones	3 Zones Per Sensor	
35	Ethernet Interface	10/100/1000 BaseT, RJ-45, Auto-Negotiation	
36	Supported Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS- Discovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, Multicast, NTP, SMTP, WS-Security, SNMP, CIDS, FSTP, UPnP™, SIP	
37	Web Browsers	Microsoft Edge, Firefox, Safari, Chrome	

38	Security	Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS, 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming.	
39	Card Support	Built-in Quad Micro SDXC slot up to 2TB per slot; Card not included	
40	Pre-Alarm Recording	Yes	

41	Recording Format	MP4 File Format	
42	Recording Trigger	Dry Contact Alarms, Motion Detection, Face Detection, AI Object Classification, Periodic Events	
43	TrickleStor	Yes, encrypted storage	
44	Power	Power over Ethernet (PoE) IEEE 802.3bt Type 4 Class 8; 24 VAC, Max Draw: PoE 71.3W, 24 VAC 71.3W,	
45	Dual Power	Supported	
46	Operating Temperature	Temp -40°C (-40°F) to +55° C (131°F)	
47	Humidity	Up to 90% Non-Condensing	
48	Vandal Resistant	IK10	
49	Outdoor Rating	IP66	
50	Safety	EN50121-4; EN60950-1; UL60950-1; IEC 60950-1; CSA 22.2 No. 60950	
51	Emissions	FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A	
52	Immunity	EN55024; EN50130-3	
53	Environment	RoHS; WEEE	
54	NDAA & TAA Compliant	Yes	

**Dual Sensor Camera**

**Make:**

**Model No:**

S.no	Parameter	Description	Compliance (Yes/No)
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1	Image Sensor	Sony 1/2.8" Progressive Scan CMOS imager	
2	Lens	3.42 mm – 6.85 mm, motorized focus and zoom, P-Iris F/1.85(W) – F/2.4(T) One Touch auto focus, manual and automatic focus with zoom	
3	Field of View (FoV)	H: 99.7° - 45.5° ,V: 68.1° - 32.7°	
4	Day/Night	True Day/Night CF removal	
5	Minimum Illumination	Color: 0.13 lux ,B/W: 0.04 lux, IR on: 0 lux	

6	Sensor Module Control	Each sensor manually repositionable	
7	Camera Angle Adjustment	Pan 355°, Tilt 60°, Rotation 355°	
8	Electronic Shutter Control	Automatic, Manual (1/4 to 1/32000 sec)	
9	IR Illumination*	Dedicated IR per sensor 850 nm LEDs, 35 m (114.83 ft) Individually controllable	
10	Memory	2048 MB RAM, 8192 MB Flash	
11	Video Compression	H.264/H.265/MJPEG	
12	Bitrate Control	CBR/VBR/CVBR (configurable)	
13	Max Frame Rate (60 Hz/50 Hz)	2MP: 60/50 fps/5MP: 30/25 fps	
14	Dynamic Range	True multi shutter WDR up to 120dB SmartWDR, TWDR 2x, TWDR 3x	
15	Motion Detection Zones	6 zones supported (3 zones per sensor)	
16	Network Users	10 users	
17	Smart Defog	Supported	
18	Image Orientation	None, Mirror, Flip, Flip and Mirror	
19	Corridor Mode (rotate 90° right or left)	Required	
20	Picture Settings	Auto Exposure: Multiple Profiles (incl Auto, Gaming, LPR), Multiple ROI (incl AI ROI: Object, Person), Gain Control (Auto, Max, Manual), Flicker less, White Balance (Auto Normal, Auto Wide, Manual), text overlay	
21	Privacy Zones	20 user definable rectangular zones (10 per sensor)	

22	Image Stabilization	Electronic Image stabilization (EIS) using gyro sensor	
23	Analytics AI	Object Classification Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue Sub-Classes: Person Clothing Color	

		(Upper, Lower), Vehicle Color	
24	AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)	
25	AI Blur Detection	Supported	
26	AI Metadata	Supported	
27	Network	IEEE 802.3, 10/100Base-T Ethernet, RJ45, auto sensing	
28	Cyber security	ISA Secure ISA/IEC 62443-4-1 certified secure development Secure boot Signed and encrypted firmware	
29	Authentication and Security	TLS, HTTPS (HTTP over TLS), WS-Security, Certificate Management, Multi-level password protection, IP address filtering, HTTPS encryption, Enhanced Security (One-Click Security Hardening), User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE 802.1x (PEAP, EAP-TLS, EAPoL)	
30	Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS- Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS- Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WS-Addressing, CIFS, UPNP, LLDP, QoS, SIP, ARP, EAP-LEAP, QoS, SNMPv1/v2c/v3(MIB-2)	
31	Video Streams	Triple Streaming with a maximum of 5 concurrent shared streams (per sensor) Dual Full HD Video Stream Supported (per sensor)	
32	Event Triggers	Motion Detection, Tamper & Blur Detection, AI Object classification, Alarm Input, Network Loss, Periodic Event, Temperature	

33	Event Actions	Record to SD card, Snapshot, SMTP e-mail file transfer, FTP file transfer, CIFS, Auxiliary output, Audio clip playback, SIP Call	
34	Audio compression	G.711 $\mu$ -law	

35	Audio Input/output	Bi-directional, 1x Line input and 1x Line output	
36	External I/O Terminals	1x Alarm In and 1x Alarm Out	
37	Onboard Storage	2 x micro SDXC slots, Class 10 or better, upto 2TB supported (1TB per slot), Card not included. Pre event / Post event 1- 10 sec Encrypted storage and streaming	
38	Power	Power over Ethernet (PoE+) IEEE 802.3at Type 2 Class 4   24VAC	
39	Dual Power Redundancy	Supported	
40	Operating Condition	Operating temperature: -40°C (-40°F) to +60° C (140°F) Start-up temperature: -40°C (- 40°F) Humidity: up to 95% RH, Non-Condensing	
41	Casing	IP66, IP67, NEMA 4x and IK10 rated	
42	EMC	BS/EN 55032 Class A, FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A, IEC/BS/EN 61000-3-2, BS/EN 61000-3-3, BS/EN 50130-4, IEC 61000-4-2/3/4/5/6/11	
43	Safety	CAN/CSA C22.2, BS/EN 62368-1, UL 62368-1, AS/NZS 62368-1, J62368-1, CEI EN 62368-1 EN50121-4, EN60950-1, UL60950-1, IEC 60950-1, CSA 22.2 No. 60950	
44	Environment	NEMA 250 Type 4X, IEC 62262 (IK10), IEC 60529 (IP66/67),	
45	Web Browsers	Microsoft Edge, Firefox, Safari, Chrome	
46	NDAA Compliant	Yes	
47	TAA Compliant	Yes	
<b>5MP Corner Mount Camera</b>			



Make:

Model No:

S.no	Parameter	Description	Compliance (Yes/No)
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1	Image sensor	Sony 1/2.8" progressive scan ultra-lowlight CMOS sensor	
2	Lens	2.3 mm, F2.2, fixed focus, fixed iris Field of view: Horizontal 132°, vertical 97°	
3	Day and night	True D/N by mechanically removable IR-cut filter, thresholds adjustable	
4	Minimum illumination	Color: 0.17 lux B/W: 0.06 lux 0 lux when IR on	
5	Shutter speed	1/32,000 sec ~ 1/4 sec	
6	IR illumination	940 nm invisible IR, effective 10x10 m (33x33 ft) space	
7	White light illumination	White LED, luminance or warning, effective 2x2 m (6.5x6.5 ft) space	
8	Video compression	H.264/H.265	
9	Resolution and frame rate	Up to 2560x1920 (4:3) at 30/25 fps	
10	Video streaming	H.264 and H.265 Quad streaming CBR/VBR/CVBR configurable bitrate control Higher compression ROI	
11	Wide dynamic range	True WDR 120dB technologies Smart WDR, TWDR 2x, TWDR 3x Smart Defog	
12	Smart image processing	AI Auto exposure: Object, person, face Smart auto exposure profiles: Gaming, LPR, various others	

13	Image settings	Configurable color contour, auto exposure, AE compensation, auto white balance, auto gain control, auto electronic shutter, flickerless, image orientation, text overlay Digital noise reduction 2D/3D Privacy mask	
14	Image stabilization	Electronic image stabilization (EIS)	
15	Audio compression	G.711 $\mu$ -law	
16	Audio streaming	Bi-directional, full duplex	
17	Audio input/output	Built-in Microphone, Speaker 1x Line-in, 1x line-out, terminal block	
18	AI Object classifications		

19	Classes	Person Vehicle Retail Suspicious objects	
20		Person Bicycle, bus, car, motorbike, train, truck Cart Backpack, handbag, suitcase	
21	Sub-classes	Person clothing colors (upper, lower), vehicle colors	
22	Rules	Object detected, abandoned/removed objects, direction, linger, dwell, enter, exit, crowd, queue, perimeter	
23	AI Face detection	Yes	
24	AI Tamper detection	White out, black out, scene change	
25	AI Blur detection	Yes	
26	AI Metadata	Yes	
27	AI Smart search	AI Person Re-ID	
28	Video motion detection	Yes	
29	Ethernet	IEEE 802.3, 10/100 Base-T, 1x RJ45, auto sensing	

30	Cyber security	ISASecure ISA/IEC 62443-4-1 certified secure development Secure boot, Signed and encrypted firmware	
31	Network security	Multi-level password protections, brute force delay protection, IP address filtering, HTTPS encryption, IEEE 802.1x (PEAP, EAP-TLS, EAPoL), digest authentication, HTTPS over TLS, WS-Security, certificate management, enhanced security (one-click security hardening, user access log, validate complex credentials, disabling unused protocols)	



32	Supported protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WS-Addressing, CIFS, UPNP, LLDP, QoS, SIP, Hostname configuration	
33	Network management	SNMP v2c/v3	
34	Simultaneous users	10	
35	Alarm	1x Line-in, 1x relay line-out (30V, 1A), terminal block 1x Tamper switch	
36	Application program interface	ONVIF Profile S, Profile G, Profile M, Profile T	
37	Event triggers	Video analytics, alarm input, casing open, network loss, temperature	
38	Event handling	Record to SD, snapshot, SMTP email out, FTP upload, CIFS, alarm output, playback audio clip, SIP call, flash white LED	
39	Onboard storage	1x microSDXC slot, Class 10 or higher, up to 2TB capacity, card not incl 1~10 sec pre/post-event buffering Encrypted storage and streaming	
40	Vandal resistance	IK11 50 joules impact-resistant rated	
41	Weathering resistance	IP68/67/66 rated, NEMA 250 Type 4X certified	
42	Reset buttons	1x Reboot, 1x factory reset	

43	Power source	PoE: IEEE 802.3af Type 1 Class 3, PoE+: IEEE802.3at Type 2 Class 4 24 VAC, 1A, terminal block 12 VDC, 1.4A, terminal block	
44	Power consumption (max)	PoE 12.95 W, PoE+ 25.5 W 24 VDC 16.5 W 12 VDC 16.8 W	
45	Dual power redundancy	Supported	
46	Operating conditions	PoE+ & 24 VAC: -40 °C ~ 60 °C (-40 °F ~ 140 °F) PoE & 12 VDC: -20 °C ~ 60 °C (-4 °F ~ 140 °F) Maximum temperature (intermittence): 65 °C (165 °F) Up to 0 ~ 95% RH non-condensing	

47	EMC	BS/EN 55032 Class A, IEC/BS/EN 61000-3-2, BS/EN 61000-3-3, BS/EN 50130-4, IEC 61000-4-2/3/4/5/6/11, FCC Part 15 Subpart B Class A, ICES-003/NMB-003 Class A, RCM AS/NZS CISPR 32 Class A	
48	Safety	IEC/UL/CB 62368-1, CAN/CSA-C22.2 No. 62368-1 IEC/UL/CB 60950-1, CAN/CSA-C22.2 No. 60950-1, IS 13252 (Part 1)	
49	Environment	NEMA 250 Type 4X, IEC/EN 62262 (IK11), IEC/EN 60529 (IP68/67/66) RoHS, WEEE, REACH	
50	NDAA compliant	Yes	

**PTZ Camera (30 X Optical Zoom , 12x Digital Zoom)**

**Make**

**Model**

S. No.	Minimum Specification	Description	Compliance (Yes/No)
1	Image Sensor	Sony 1/2.8" Progressive Scan CMOS imager	

2	Lens	4.5 mm – 135 mm, MFZ, P-iris F/1.4(W) – F/4.4(T)	
3	Field of View (FoV)	H: 59.8° - 2.34° V: 40.5° - 1.48°	
4	Day/Night	True Day/Night CF removal	
5	Minimum Illumination	Color: 0.01 lux, B/W: 0.007 lux IR on: 0 lux	
6	Electronic Shutter Control	Automatic, Manual (1/4 to 1/32000 sec)	
7	IR Illumination	850 nm LEDs, Adaptive/Smart IR Outdoor: 200 m (656 ft)	
8	Memory	1024 MB RAM, 4096 MB Flash	
9	Pan/Tilt/Zoom	Pan: 360° continuous endless, 0.04° - 300°/s Tilt: +15° to -90°, 0.04° - 180°/s (indoor/outdoor with IR) Tilt: -15° to -90°, 0.04° - 180°/s (indoor with bubble) Zoom: 30x optical, 12x digital, total 360x zoom Auto flip, 300 presets, 96 sequences, 16 programmable pattern, Apple peel, adjustable zoom speed, home position (Preset, Pattern, Sequence, or Scan after no PTZ activity)	
10	Video Compression	H.264/H.265/MJPEG	

11	Bitrate Control	CBR/VBR/CVBR	
12	Max Resolution	1920 x 1080 (2MP) to 480x272	
13	Max Frame Rate (60 Hz/50 Hz)	2MP: 60/50 fps	
14	Video Streams	Triple Streaming with a maximum of 5 concurrent shared streams	
15	Dynamic Range	True multi shutter WDR up to 120dB Off, SmartWDR, TWDR, TWDR 3x	
16	Smart Defog	Supported	

17	Picture Settings	Auto Exposure: Multiple Profiles (incl Auto, Gaming, LPR), Multiple ROI (incl AI ROI: Object, Person), Gain Control (Auto, Max, Manual), Flickerless, White Balance (Auto Normal, Auto Wide, Manual), text overlay	
18	Privacy Zones	10 user definable rectangular zones	
19	Image Stabilization	Electronic Image stabilization (EIS) by using gyro sensor	
20	Analytics	Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue, Direction ,Sub-Classes: Person Clothing Color (Upper, Lower), Vehicle Color	
21	AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV tamper)	
22	AI Blur Detection	Supported	
23	AI Metadata	Supported	
24	Motion Detection Zones	Yes (Single Full screen Zone)	
25	Intelligent Guard (Auto Tracking)	Person Tracking	
26	Network	IEEE 802.3, 10/100Base-T Ethernet, RJ45, auto sensing	
27	Cyber security	ISASecure ISA/IEC 62443-4-1 certified secure development Secure boot Signed and encrypted firmware	
28	Authentication and Security	TLS, HTTPS (HTTP over TLS), WS-Security, Certificate Management, Multi-level password protection, IP address filtering, HTTPS encryption, Enhanced Security (One-Click Security Hardening), User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE 802.1x (PEAP, EAP-TLS, EAPoL)	

29	Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS- Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WS-Addressing, CIFS, UPNP, LLDP, SIP, ARP, EAP-LEAP, QoS	
30	Network management	SNMPv1/v2c/v3(MIB-2)	
31	Simultaneous users	10 users	
32	Application Programming Interface	ONVIF Profile S, G, T, M conformant	
33	Event Triggers	Motion Detection, Tamper & Blur Detection, AI Object classification, Alarm Input, Network Loss, Periodic Event, Temperature	
34	Event Actions	Record to SD card, Snapshot, SMTP e-mail file transfer, FTP file transfer, CIFS, Auxiliary output, Audio clip playback, SIP Call	
35	Audio compression	G.711 $\mu$ -law	
36	Audio Input/Output	Bi-directional, 1x Line input and 1x Line output	
37	External I/O Terminals	2x Alarm In and 2x Alarm Out	
38	Onboard Storage	Micro SDXC slot, Class 10 or better, upto 1TB supported (Card not included). Pre event / Post event 1-10 sec Encrypted storage and streaming TrickleStor offline recording and backfilling	
39	Power	Outdoor: IEEE 802.3bt PoE++ Type 4 Class 7   24VAC   48VDC PoE/24VAC: 51.6W; 48VDC: 48.5W	
40	Dual Power Redundancy	Supported	



41	Operating Temperature	Outdoor: -40°C (-40°F) to +65° C (149°F) (IR off at +60° C/140° F) Start-up temperature: -40°C (-40°F)	
42	Humidity	up to 95% RH, Non-Condensing	
43	EMC	BS/EN 55032 Class A, FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB- 003 Class A, IEC/BS/EN 61000-3-2, BS/EN 61000-3-3, BS/EN 50130-4, IEC 61000-4-2/3/4/5/6/11	
44	Safety	CAN/CSA C22.2, BS/EN 62368-1, UL 62368-1, AS/NZS 62368-1, J62368-1, CEI EN 62368-1, EN50121-4, EN60950-1, UL60950-1, IEC 60950-1, CSA 22.2 No. 60950	
45	Environmental	NEMA 250 Type 4X, IEC 62262 (IK10), IEC 60529 (IP66), EU RoHS (2011/65/EU), EU Reach (EC 1907/2006), EU POP compliance, Calif Prop 65, WEEE, MSDS,NDAA	
46	Web Browsers	Microsoft Edge, Firefox, Safari, Chrome	
47	NDAA Compliant	Yes	

**Video Management System Software**

S. No	Minimum Specification	Compliance (Yes/No)
1	The Video Management System (VMS) software shall be used to view live and recorded video from capture cards and IP devices connected to local and wide area networks. The VMS software shall have a client/server- based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more workstations.	
2	The VMS shall be supplied with minimum 100 nos of thick clients and 16 mobile clients	
3	Recording of all video transmitted to the VMS shall be continuous, uninterrupted and unattended	
4	The VMS system shall offer the capability of video motion detection recording, such that video is recorded when the NVRMS detects motion within a region of interest of the camera's view. Video prior to the detection of the motion shall also be stored with recording using the pre-recorded feature.	
5	It should also provide following feature:	
6	Suspect Tracking : Configure camera links between cameras to follow a suspect between different camera scenes	
7	Archive bookmarks: Specifically archive bookmarked video to create a second copy of important video and avoid using limited WAN bandwidth	
8	Inactivity timeout : Save bandwidth with blacked out video panels after inactivity	
9	The VMS system shall manage the video it has been configured to monitor. Loss of video signal shall be configured to annunciate on VMS client by an on-screen visual indication alerting operators of video loss.	
10	The VMS software shall have an open architecture supporting IP cameras and encoders from multiple manufacturers providing best-of-breed solutions ranging from low-cost, entry-level features to high-resolution, megapixel features	

11	The VMS client software shall be able to view live video and audio, recorded video and audio and be able to configure the complete system all from a single application	
12	The VMS client software shall have the same functionality when connected remotely as it does when it is run locally on the same computer as the server software	
13	The VMS client software shall operate on all of the following operating systems: Windows, Linux, Mac OSX	
14	The VMS software shall allow the user to have any combination of VMS client applications running on any of the supported operating systems and be able to connect to any of the VMS servers running on any of the supported operating systems. For example, a VMS client running on Microsoft Windows 7 shall be able to simultaneously connect to four (4) different VMS servers all running on different operating systems, such as Windows Server 2003, Windows XP, Vista and Linux	
15	The VMS software shall have the capability to run multiple client applications simultaneously on one workstation with multiple monitors. Up to 12 monitors shall be configured on a single workstation with one (1) client application running on each monitor. Because decompressing video is CPU-intensive, the PC workstation shall have multiple core processors with a recommendation of one core for each VMS client application.	

16	The VMS shall also allow an authorized user to view video through a web client interface. The web client interface shall allow authorized users to view live video, view recorded video, control pan-tilt zoom (PTZ) cameras and activate triggers. The web client interface shall allow connections to multiple VMS servers simultaneously	
17	The web client interface shall operate without requiring installation of any software	
18	When using the web client interface, the VMS server shall transcode the video into a JPEG file of the size as the browser screen before sending it to the browser	
19	The web client interface shall support the following browsers: IE, Firefox, Opera, Safari, Chrome and shall be compliant with HTML 4	
20	The VMS server software shall record and retrieve video, audio and alarm data and provide it to the VMS clients upon request	

21	The VMS software shall provide a purpose built mobile application capable of viewing multiple simultaneous live video streams and playing a recorded video stream. Application shall be provided for both iOS and Android operating systems. Min. 5 mobile clients to be supplied at each location.	
22	The VMS server software shall operate on any of the following operating systems: Windows, Linux	
23	The VMS server software shall record video based on metadata generated by an edge network device. The edge network devices shall generate the metadata and transmit it with the video stream to the VMS server software	
24	The VMS shall license the total number of cameras on the system. This license shall be based on the MAC address of a single network card that is present on the system. The VMS shall only require that this network card be enabled and does not require that data is actually sent through it	
25	The VMS shall be able to use the Active Directory or LDAP features of a network to authenticate users and determine which permissions they will have on each server.	
26	The VMS shall allow the use of maps. The maps will be accessible to users with the appropriate permission levels and display video sources and their status	

27	The VMS shall allow maps to be embedded inside of maps (i.e. hierarchical or nested maps). When an event happens on a map that is embedded inside of a map, it shall transmit the alert to all parent maps and change the color of the icon on the parent map and all subsequent parent maps	
28	The VMS allows soft triggers to be placed, viewed and triggered from a map	
29	The VMS shall have a single page that displays the status of all servers and cameras currently connected. This page shall display any alarms, events, MAC addresses, camera configuration, format and frame rate from each individual camera	
30	When in live display mode, the user shall be able to view live video, live audio, point of sale (POS) data and alarm information	
31	The VMS shall provide an option to view 16:9 wide video display panels	

32	The VMS shall allow the customization of the user interface to allow software triggers to be shown. This shall allow them to activate events through the push of a button, which could trigger recording, PTZ presets, output triggers or email	
33	The VMS software shall allow control of PTZ cameras to authorized users and be used to maneuver a PTZ camera. When used on a non-PTZ camera, it shall allow you to digitally pan, tilt and zoom on any video whether in live or recorded mode.	
34	The VMS shall allow following methods of controlling a PTZ camera to be available:	
35	- PTZ graphics control windows	
36	- Live graphic overlay PTZ control icons	
37	- Keyboard control (up, down, left, right arrows; page up, page down for zoom)	
38	- PTZ presets	
39	- Digital PTZ	
40	- USB joystick to control PTZ cameras	
41	- Proportional PTZ control by clicking the mouse in the center and moving it	
42	The VMS software shall allow virtual matrix functionality by designating a cell to do so. This video cell shall automatically show video as it is triggered	
43	The VMS software shall have a feature for viewing logical groups of cameras. This shall allow efficient viewing of cameras in a logical order	

44	The VMS software shall have a feature to organize your cameras into preset views. Views are preconfigured arrangements of the video panels so that they may be easily recalled later. A view can save the location of the video streams, audio streams, maps and event views. These views shall be accessible in both live and recorded video modes	
45	The VMS software shall have the capability to automatically cycle through two or more saved views to create a video tour. The VMS shall allow the configuration of the dwell time and the different views it shall use	
46	The VMS software shall support searching through recorded video based on time, date, video source and image region and have the results displayed as both a clickable timeline and a series of thumbnail images	
47	The VMS software shall have the capability to export video, maps, and audio files	

48	The VMS software shall provide the option of exporting the file in the following formats:	
49	- Standalone Exe (*.exe) – includes an executable player with the video and audio data	
50	- AVI File (*.avi) – a multimedia container format	
51	1. PS File (*.ps) – a format for multiplexing video and audio	
52	The VMS standalone player shall package all of the exported video into a single executable. The VMS standalone player shall be able to authenticate that the video has not been tampered with using a keyed Hash Message Authentication Code (HMAC)	
53	The VMS system shall be able to display system information about users that are currently logged into the system, plug-in file version information number and status, and a system log that contains a detailed history of the processes that occur on the system	
54	The VMS system shall have the ability to record an audit trail of when users log in that shows what changes they have made, what video they have viewed and what they have exported	
55	The VMS shall allow monitoring of the inputs on both network devices and on manufacturer provided hardware. The VMS shall also allow triggering of outputs on the network devices and manufacturer provided hardware	
56	The VMS shall allow for the configuration of what drives to use for recording video. Those drives may be local drives, direct attached storage drives or iSCSI drives	
57	The VMS shall not require a database when recording video	

58	The VMS shall have the ability to receive ASCII data through the COM port on the server or over the network	
59	The VMS shall have the ability to look for keywords in the ASCII data and use these to execute various events such as PTZ presets, recording video, recording audio and sending email notifications	
60	The VMS software shall be able to send a predefined email based on an event trigger. The VMS software shall also support SSL and TLS connections for transmissions of the mail.	
61	The VMS software shall have a feature to export a video segment from specific cameras or audio inputs to a CD or DVD upon an input trigger or other event being activated.	

62	The VMS software shall be used to connect different types of events, such as input triggers, to a desired action such as recording video or triggering an alarm. The VMS software shall recognize the following event types: Video Motion, Video Loss, Input Trigger, Health, IP Camera Connection, Software Trigger and Analytics	
63	The VMS client shall be able to use render video.	
64	The VMS software shall allow the user to input time-based triggers through event monitoring, including the time of day and day of week	
65	Camera preview Style e.g Hovering /One click	
66	Video Pane must be identify by color e.g Motion, Alarm, Free Run,PTZ Focused, Book Marked	
67	VMS has Video Push feature to another Client desktop simultaneously	
68	Support mainstreaming to manage all quality stream	
69	Server and Client must be run on single machine another client machine not Required.	
70	Support configuration of multiple DNS servers	
71	At least 60 second timeout for out of schedule login failure	
72	Support analytic metadata in live and search	
73	Support Video Wall	
74	Search and display analytic meta data when searching analytic event linkages	
75	VMS shall support CIFS and NFS network shares for archive target locations	
76	All streams can be individually configurable for recording schedules and storage rules	
77	configurable recording of video prior to the detection of the motion	

78	The VMS shall support a graphical representation of drive status for associated RAID-based storage	
79	The VMS shall support local HDD disk storage	
80	The VMS shall support iSCSI extended storage whereby a remote storage unit can appear as a local drive	
81	support Map Functionality and multi-level mapping	
82	Support bookmarking feature shall allow the tagging, naming, and retention of video clips	

<b>Video Analytics</b>			
<b>S.no.</b>	<b>Minimum Specification</b>	<b>Description</b>	<b>Compliance (Yes/No)</b>
<b>People detection and Count Technical Specs</b>			
1	<b>Input video quality</b>	The input video quality must be of sufficient resolution, clarity, and frame rate to enable the detection of fire and smoke. A minimum of 720p resolution and 15 frames per second (fps) is recommended.	
2	<b>General</b>		
3	<b>Detection</b>	The system should detect if a person walking upright has collapsed or fallen on the ground	
4	<b>Configurable parameters</b>	The user needs to share the detection zones where the alerts should be shared	
5	<b>Reporting</b>	If a person enters in any restricted area or any unattended baggage or kept beyond some threshold time etc. Having a system that can monitor various types of human behavior can help the city's officials ensure the safety of their citizens.	
		The analytic should have the capability of detection of a crowd within the Field of View of the camera.	
		The analytic should generate the crowd formation alert with estimate of the number of persons in the crowd based on the headcount.	
6	<b>Software Requirements</b>	The system will require software to perform image processing, deep learning, and decision-making. These components will be built using popular libraries such as OpenCV, TensorFlow. The software will be designed to run on a Linux operating system and can be integrated with existing building management systems.	
<b>ANPR Technical Specs</b>			



7	General	The application should be able to index the camera feed be it day or night.	
		Indexing shall be done automatically from the live camera feed in real-time.	
		The indexing should have following parameters as a output	
		Number Plate of the vehicles	
		Classification of the vehicles	
		Colour of the vehicles	
		Approximate speed of the vehicles	
		Application shall be designed to work for 24x7 unattended operations.	
		Application shall perform OCR (optical character recognition) of the license Plate characters (English alpha- numeric characters in standard fonts and Devanagari ).	
Application must process each frame of video feed for ANPR and provide the best evidence and OCR of Number plate			
8		Application shall store JPEG image of vehicle and license plate cropped image and Store the license plate number into DBMS like mongodb . database along with date and time stamp.	
		Application shall be designed to de duplicate the entries from the front and back camera to merge as a single entry	
		Application should support searching for similar plates across multiple cameras.	
		Application should be able to detect single row, double row, multi row, square and rectangular plates as well.	
		Application should compare against the Watch List database to detect any number plate matches.	

	Functional Requirements	Application should support Real-time alerts on Plate matches.	
		Application should Detect, Recognize and Search License Plates.	

*Handwritten signature*

		<p>This application will have user roles and permission. The operator will have the permission to view the data and audit them. The operator can check the alerts and can take necessary actions. The admin will have the ability to view and download the reports. Also check the audit reports.</p>	
		<p>Audit dashboard should have the feature to let the manual operator audit the vehicle with "Correct", "Unclear", "Incorrect" and "Generate challan"</p>	
		<p>Allows users to track vehicles across multiple cameras or locations to identify potential threats.</p>	
		<p>Should generate an alarm in case of any identified vehicle plate</p>	
		<p>It should Enable automated matching against a watch list with real time alerting</p>	
		<p>The system Graphical User Interface should support English &amp; Graphical User interface (GUI) should provide following information:</p>	
		<p>Image of the vehicle</p>	
		<p>Text conversion of number plate after using OCR (Optical Character Recognition) technology</p>	
		<p>Date and Time of offending vehicle</p>	
		<p>Event/images/chart of ANPR</p>	
		<p>Records and logs all License Plates at a scene, for forensic investigations.</p>	
		<p>Logs vehicles with multiple overview camera images</p>	
		<p>A list of the most recent capture events will be always displayed to the operator.</p>	

		Report watch should allow users to monitor any of your reports in real-time without having to leave the main screen. This can be downloaded in pdf/xls.	
		Video resolution: 1080 is recommended	
		Min Framerate: 12-30 FPS (for tracking).	
		Min Framerate: 12-30 FPS (for inference)	
		Image quality: LP image contrast should be high at different times of day, especially at night-time. The image needs to have minimal noise at low light situations.	

		System should be able to give vehicle image with license plate image	
		Store events with plate images	
		The system shall store the vehicle license number into a relational mongo DB along with date timestamp and Camera details. The necessary license/ subscription/support services of the database software should be bundled with the ANPR software.	
		Open architecture and easy integration of alerts via http	
		Can be integrated with e-Challan system	
		Option to include or exclude zones	
		Real-time alerts on Vehicle violation detection	
		Detailed Reports of violations	
		Should work with real-time IP cameras, live videos.	
		Should work with real-time IP cameras, live videos.	

		The Application shall have more than 95% Accuracy during daytime and 93% during night-time for all different types and classes of vehicles for Standard number plates and 80% for nonstandard license plates and plates in Devanagari.	
		The Application should detect for both Standardized (High Security Registration Plates) and Non-Standardized plates.	
		The Application should have an Intuitive GUI & user-friendly menu driven Interface for the Configuration & Viewing the Application.	
		The Application should be a Web Based Application, so that it can be Accessed on a Standard Web Browser from any System within the LAN.	
		The accuracy for the features should be as follows	
9	Performance	Features	
		Standard English number plate	
		Non Standard English number plate	
		Devanagari number plates	
		Darker shades colour accuracy	
		Light colour shades accuracy	

		Night time colour feature	
	<b>Perimeter Intrusion Detection System (PIDS)</b>		
10	<b>Input video quality</b>	The input video quality must be of sufficient resolution, clarity, and frame rate to enable the detection of fire and smoke. A minimum of 720p resolution and 15 frames per second (fps) is recommended.	

11	<b>Detection</b>	The system should detect if a person walking and loitering	
		Analytics software of the PIDS System shall alarm for any kind of human intrusion.	
		The system design shall not trigger false alarm if birds/ tree branches/ leaves/ rodents / paper etc crosses installed system.	
		The Perimeter Intrusion Detection System (PIDS) in zone is to be provided along the boundary wall of different zones. The system shall have features of alarm / intimate/ record of any intrusions crossing the boundary wall of any zone	
12	<b>Configurable parameters</b>	The user needs to share the detection zones where the alerts should be shared	
13	<b>Reporting</b>	If a person enters in any restricted area or any unattended baggage or kept beyond some threshold time etc. Having a system that can monitor various types of human behavior can help the city's officials ensure the safety of their citizens.	
		The analytic should have the capability of detection of a crowd within the Field of View of the camera.	
		The analytic should generate the crowd formation alert with estimate of the number of persons in the crowd based on the headcount.	
14		Image Processing and Analytics: Utilises advanced image processing and deep learning techniques. Libraries: OpenCV, TensorFlow (or equivalent).	
		The software must be compatible with Linux operating systems.	

	<b>Software Requirements</b>	Seamless integration with existing building management systems.	
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15	Dashboard	Real-time alerts and notifications for detected loitering incidents.	
		Logging of all the alerts in an hourly logs	
		Logs should be stored for at least 30 days	
		Tracking and alerting of person who is loitering and recording timeframe of loitering	
		Raise an event when a person enters from an usually closed location, person detected during off-hours, person detected for extended duration of time.	
		Raise an alerts for people sitting or standing in certain zones	

**Network Video Recorder (NVR) System (128 Channels)**

S.No	Parameter	Description	Compliance (Yes/No)
1	General	Easy Connect - automatically finds, addresses and connects IP cameras	
		Conduct investigations on recorded video, audio and data with	
		Thumbnail or timeline search	
		Bookmark important video for long-term retention	
		Video multi-streaming to optimize storage utilization and network traffic	
2	Compression	H.264, H.265, MJPEG	
3	Maximum IP Cameras	NVR should support up to min 128 full HD (1920x1080p) cameras per appliances	
4	Two-way Talk	NVR should Two way audio feature ,Audio Inputs ,Audio Outputs , Audio Input and Output ports should be inbuilt in the NVR from factory without using any third-party convertor	
5	Operating System	It must work on Windows and Linux platform and client application should work on MAC, Windows, Linux from workstation	

6	Operating System Location	256 GB SSD (RAID 1), Windows and Linux operating system shall boot and run on a solid-state drive (SSD) to ensure high performance and reliability.	
7	Typical Video Storage Rate	1800 Mbps - Linux 1100 Mbps - Windows	
8	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
9	Record Mode	Manual, Schedule (Regular(Continuous), MD, Alarm), Stop	

10	Trigger Events	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer, network loss, video loss	
11	Video Detection	Motion Detection, MD Zones: 396 (22x 18), Video Loss & Camera Blank	
12	Resolution	12MP, 4K, 6MP, 5MP, 3MP, 2MP, 1.3MP, 720P & etc.	
13	Local Client Display Rate (fps)	500@HD resolution (Windows) 700@HD resolution (Linux)	
	Streaming	It should support streaming live/recorded video up to 500 simultaneous PC clients	
15	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search, event, bookmark search	
16	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom	
17	Backup Mode	USB Device / Network / Internal SATA Burner	
18	Maximum Hard Drives	20 SATA, 18TB Each	
19	Maximum Storage	360 TB	
20	Raid Controller	RAID 6	



21	Monitor Output	Monitor Output - DisplayPort/DVI, HDMI, VGA ,3 Simultaneous monitors these ports should be inbuilt in the NVR from factory without using any third-party convertor	
22	CPU	Intel® Xeon E3 or better	
23	RAM	32 GB or better	
24	Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter.	
25	NIC	NVR shall have Dual 10 Gig NIC option (4 total NICs: 2x 10Gig, 1x 2.5Gig, 1x 1Gig) NIC card	
26	USB	4 USB slot	
27	Serial	NVR shall have RS-485 serial port communicate with devices. The ports should be inbuilt in system and not external add-on devices.	
28	Alarm Inputs/Output	It should support 8/4 Alarm Inputs/Output, these ports should be inbuilt in the NVR from factory without using any third-party convertor.	

29	Audio Outputs	Support	
30	Smart Phone	iPhone, iPad, Android, Windows Phone	
31	Maximum User access	128 users	
32	Keyboard & Mouse	Included	
33	Power Supply	NVR shall have Dual Hot Swap redundant Power Supplies Built-In with NVR	
34	Power	AC120V-240V, VAC, Auto Sensing, 50-60Hz	
35	Keyboard & Mouse	Included	
36	Working Environment	Operating temperature should be 5 – 35° C	
37	Operating System	Pre-loaded Operating System must be on windows platform,with Operating System Drive 256 GB SSD RAID 1 configuration.	
38	Regulatory	Requirement is of critical nature and hence offered camera must be of global standards and hence should be CE, FCC and UL.	
39	General	IP Camera, NVR & VMS should be from the same OEM for smooth integration	

**Lift communication & operator desk station video display and call control**

S No.	Parameter	Description	Compliance Yes/No
1	Panel type	Individual	
2	Camera	1/4"	
3	Resolution	2 Mp	
4	Camera angle	100° (horizontal)	
5	Output video	HD (1280 × 720), H.264 Main Profile	
6	Night backlight	6 LEDs	
7	Light sensitivity	0,01 LuX	
8	Protection class	IP65	
9	IK-Code	IK09	
10	Working temperature	-40 — +65 °C	
11	Power consumption	6,5 W, in standby — 3,6 W	
12	Power supply	PoE, +12 V DC	
13	Body	Aluminum	
14	Colors	Silver	
15	Dimensions for installation	85 × 180 × 45 mm	
16	Size of the panel	95 x 190 x 27 mm	
17	Installation	Flush mount	

**Technical specification of UPS**

S. no	Minimum Specification	Compliance (Yes/No)
1	<b>RATING</b> 10 Kva / 8000 watt	
2	Technology True Online Double Conversion PWM IGBT Based	
3	Input Phase Single Phase Input	
4	Input Voltage range Single Phase 160V-300VAC at 100% load	
5	Frequency 45 Hz– 55 Hz	
6	Power factor >0.8(Load dependent)	
7	<b>OUTPUT</b>	
8	Output Voltage Range Single phase 220/230/240VAC +1%	
9	Voltage regulation +/- 1%	
10	Frequency 50 HZ +/- 0 .1%	
11	Power Factor >0.8 standard	
12	Efficiency AC -AC at 100% load >90 - 94 % (Load dependent)	
13	Crest Factor 03:01	

14	THD	≤ Than 2% on linear load, and ≤ 5% on Non-linear load	
15	Wave Form	Pure Sinewave	
16	Over Load	100% Continuous, ≤ 125% -10 Min, 125-150% -60 Sec, > 150% 10 Sec	
17	Static/Manual Bypass	Manual Bypass	
18	<b>BATTERIES</b>		
19	DC Voltage	Minimum 192VDC	
20	Charger Capacity	Minimum Charger capacity: 10 amp	
21	Recharge Time	8-10 Hrs.	
22	Battery Backup Time	30 min (8064 Vah)	
23	<b>INTERFACE COMMUNICATION</b>		
24	Standard	Rs 232	
25	Isolation Transformer	Isolation transformer at Output: Isolation transformer Should be integral part of UPS , External / additional isolation transformer shall not be acceptable	
26	<b>OTHERS</b>		
27	Display (Imp. Parameters)	<b>LCD display</b>	
28	Operation with DG	Compatible with DG Power Source	
29	Operating Temp. Humidity	0-45 °C, 0 -95% RH (Non-Condensing)	
30	Noise Level	Less than 50 db at 1 mtr Distance	
31	Protections	DC High Voltage cut off, DC Low Voltage cut off, Over Load, Short circuit, High Temp (Optional), Fan Fail (Optional)	
32	LCD /LED Indications	AC Mains voltage/Frequency, DC Voltage / Charging V, AC Output V/Frequency, Battery Mode, Load / Batt Parameter	
33	Alarms	Mains Fail, DC High, DC Low, Overload	
34	Quality Certification	ISO14001:2015, ISO 45001:2018, ISO 50001:2018, ROHS Compliant Certificate and CE, FCC, ISO 500001, ITL-9000 Certificate , PEP Certificate	
35	Performance	Compliance to IEC/EN62040-2, IEC/EN62040-3,	

36	Safety	Compliance to IEC/EN62040-1	
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Technical specification Video Analytics Server													
S.N.	Component	Description	Compliance (Y/N)										
1	Chipset	Latest Intel Chipset											
2	Form Factor	Max. 2U/4U rack mounted with sliding rails											
3	Configured CPU	<table border="1"> <tr> <td>Processor</td> <td>Intel® Xeon® 12 core or higher</td> </tr> <tr> <td>RAM</td> <td>64GB RDIMM, 3200MT/s, Dual</td> </tr> <tr> <td>Storage capacity</td> <td>500GB *2 for OS in RAID 1</td> </tr> <tr> <td>Storage capacity</td> <td>2TB sata RAID 5</td> </tr> <tr> <td>GPU</td> <td>4TB 7.2K RPM SATA 6Gbps 512</td> </tr> </table>	Processor	Intel® Xeon® 12 core or higher	RAM	64GB RDIMM, 3200MT/s, Dual	Storage capacity	500GB *2 for OS in RAID 1	Storage capacity	2TB sata RAID 5	GPU	4TB 7.2K RPM SATA 6Gbps 512	
Processor	Intel® Xeon® 12 core or higher												
RAM	64GB RDIMM, 3200MT/s, Dual												
Storage capacity	500GB *2 for OS in RAID 1												
Storage capacity	2TB sata RAID 5												
GPU	4TB 7.2K RPM SATA 6Gbps 512												
4	Memory slots	8 DDR4 DIMM slots supporting speeds up to											
5	Memory configured	Server should be configured with memory											
6	RAID Controller	12Gbps PCIe 3.0 with RAID 1, 5, 6											
7	Internal Storage	2nos. of 500Gb 10K RPM HDD											
8	DVD writer (Internal/External)	DVD RW											
10	GPU	Server should support upto GPU Cards (SI has to consider GPU cards as per their											
11	Network Interface	2 x 1G RJ45, 2 x 10 GbE											
12	OS Support	Latest version of Microsoft Windows Server /											
13	Power Supply	redundant Power Supply											
14	SD Modules slots	Dual SD Module slots supporting redundant											
15	Hard Disk	Min 2 x 2 TB HDD for Storage											

16	Management	Should be able to provide Single Pane of Management for both Rack and Blade	
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Technical specification - Workstation/desktop for Client Application			
S.no	Component	Minimum Requirement	Compliance (Yes/No)
1	Processors	Latest generation i7 or better Processor	
		3.2 Ghz or OEM recommended	
		Min 8 MB	
2	Mother Board	Latest series 64-bit chipset	
		Either on the Display system or on chassis	
		Intel/OEM	
		32 GB DDR-IV (2400 MHz) or expandable up to 64 GB	
		Graphics Card – 2 GB	
		total minimum 2 PCI Slots)	
3	Display	21.5" or higher	
		Active Matrix TFT LCD (Backlit LED)	
4	Mouse	Optical/Laser USB	
	Optical Drive	Internal 8x or higher	
	Keyboard	Standard USB	
5	Operating System	Preloaded 10 Prof 64-bit Windows/Linux	
6	HDD	1 TB SATA (7200 RPM) or higher capacity	

<b>Security Driven Networking-SDN</b>		
<b>S.no</b>	<b>Specifications</b>	<b>Compliance (Yes/No)</b>
1	Customer is in a process of setting up complete networking infrastructure with latest technological standards with complete protection and coverage of cyber security controls, considering this objective Customer is expecting a converged security enabled networking infrastructure as Security driven networking.	
2	The Customer office is expecting complete solution on network which should include Firewall and wired network devices that comprise the local-area network (LAN) edge along with A true secure office networking solution that would provide tight integration to ensure customer can achieve full visibility and control across entire environment, creating access policies once, and confidently enforcing them.	
3	<p>Security driven Networking should include below key components:-</p> <ol style="list-style-type: none"> <li>1. Next-generation firewall (NGFW) which provides consolidated comprehensive critical security capabilities such as intrusion prevention system (IPS), web filtering, Malware protection, and automated threat protection with high-performance connectivity and networking.</li> <li>2. Local-area network (LAN) edge to ensure all the users and devices can easily get connected. This comprised of:-               <ol style="list-style-type: none"> <li>i. Wired switches-Core and Access Switches (Enterprise Architecture).</li> </ol> </li> </ol>	

4	Solution must facilitate complete integrated and orchestrated network access layer to drive simplicity. It must provide automation functionalities such as automated provisioning of the access layer with complete visibility and control centrally to create policies once and confidently enforce them through your LAN edge with centralized architecture and control.	
5	Solution must have simplified and central management which consolidates visibility and control to enable IT teams to maintain consistency across firewalls, switches. To achieve this all the mentioned components should be preferably from single OEM however bidders can propose multiple solutions with required integrations and use cases to be achieved from day-1.	
6	Solution must provide automated threat intelligence, to ensure of having the latest information and protections automatically applied and enforced across firewall, switches.	
7	Proposed solution must have its own threat intelligence analysis center and should use the global footprint of security deployments for more comprehensive protection, threats feeds must get integrated with firewall, switches	
8	Proposed SDN must preferably have same central OS at all layers to manage and provide complete centralized control over office networking. Solution must have facility to have security grid with automation capability to create key stiches using integrations out of the box for firewalls, Switches which should be monitored basis regular triggers to provide automated action capability.	
9	Proposed SDN Solution must have capability to provide security grid topologies of all connected ecosystems: 1. The Physical Topology which should shows the physical structure of network, including all connected devices and the connections between them. 2. The Logical Topology which must shows information about the interfaces that connect devices to the Security grid.	

10	Proposed SDN Solution should support in-built network access control feature to bounce all the devices by default in onboarding VLAN and based on the devices matching with the specified criteria devices should be assigned to a specific VLAN. Criteria: a. MAC address, b. hardware vendor, c. device family, d. device type, e. device operating system and user group. In case, above mentioned functionality is not in-built in the switch bidder can provide additional required hardware and software resources of same OEM whose switches are proposed to meet the mentioned functionality.	
11	Proposed SDN Solution allow switch administrators to use MAC addresses to quarantine hosts and users connected to a Switch unit. Quarantined MAC addresses should isolated from the rest of the network and LAN.	
12	Proposed SDN Solution must support to block intra-VLAN traffic to prevent the direct client-to-client traffic visibility at the layer-2 VLAN layer. The switch management system should inspect north-south and east-west traffic from same VLAN or different VLAN	
13	Proposed SDN Solution should be in the Leaders' Quadrant of the latest Gartner Magic Quadrant for Firewall, wired and wireless segment	
14	Proposed SDN Solution should support TLS 1.3.	
15	Proposed SDN Solution support a guest VLAN assignment for unauthorized users. and it should have option to specify Quarantine VLAN for users whose authentication was unsuccessful.	
16	Proposed SDN Solution should be quoted ith 5 years of OEM Support.	



Next Generation Firewall		
Make and Model		
1	The appliance-based security platform should be capable of providing firewall, application visibility, IPS, antivirus & url filtering functionality in a single appliance	
2	Firewall appliance should be supplied with at least 12 x GE RJ45 interfaces, 4 x 10G SFP+ and 8 x GE SFP slots.	
3	The proposed solution should support HA in Active/Active and Active/Passive mode. The Firewall in HA should support stateful clustering across sites. HA should be supported on both IPV4 and IPV6. Feature like IPS, Anti malware, Web filtering, DDOS prevention and Traffic Shaping should be available in Active-Active when deployed in future.	
4	Must support NAT (SNAT and DNAT) with following modes Static, Dynamic, PAT, Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4), Nat46 (IPv4- to-IPv6) , DNS64 & DHCPv6 functionality.	
5	Firewall appliance must have at least 10 virtual firewall domains/instant (active from day-1) with each firewall domains/instances having a separate administrative control OR equivalent, Security zones and VLAN. Associated Licenses, Software and Hardware towards Virtual domains / Virtual Firewalls/ Virtual instances shall be provided from day 1	
6	Firewall policy must facilitate IP, Network, Port, Protocol, User, Application and Zone. And must facilitate to apply features like IPS, Web & application Content filtering, Anti-Malware, IPS, DDOS prevention, Traffic Shaping (define - guaranteed, burstable/maximum bandwidth, set different level of priority) on any firewall policy for a specific time/Date/Period. Firewall policy must also have an option of configuring exceptions to any specific features.	
7	The appliance hardware should be a multicore CPU architecture with a hardened 64-bit operating system	
8	<b>Performance &amp; Scalability</b>	
9	Firewall should support at least 25 Gbps of throughput on 64 byte packets without degrading the firewall performance	

10	Should support at least 2.8 Gbps of Mix / production performance with firewall, IPS, AVC & Anti-malware combined	
11	Firewall should support at least 3Million concurrent sessions	
12	Firewall should support at least 140,000 sessions per second	
13	Firewall should support at least 100 VLANs	
14	Firewall should support at least 30 Gbps of IPSEC VPN throughput	
15	Firewall should provide application detection for DNS, FTP, HTTP, SMTP,ESMTP, LDAP, MGCP, RTSP, SIP, SCCP, SQLNET, TFTP, H.323, SNMP	
16	Firewall should support creating access rules with IPv4 & IPv6 objects simultaneously	
17	Should support Static, RIP, OSPF, OSPFv3 and BGP	
18	Firewall should support manual NAT and Auto-NAT, static nat, dynamic nat, PAT	
19	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4- to-IPv6) functionality	
20	Firewall solution should support DNS64 & DHCPv6	
21	Firewall should support Multicast protocols like IGMP, PIM, etc.	
22	Should support security policies based on group names in source or destination fields or both	
23	Should support capability to limit bandwidth on basis of apps/groups, Networks / Geo, Ports, etc.	
24	Should support 500 concurrent SSL VPN users	
25	Firewall should support SSL inspection throughput of 3 Gbps.	
26	The proposed system shall be able to operate on either Transparent (bridge) mode or NAT/Route mode. Both modes can also be available concurrently using Virtual Contexts.	
27	Firewall should be capable of delivering AI Powered Security, Web Security, Content Security, Device Security, Advance Tools, Firewall must have capability to manage switches from same console.	
28	Should be able to perform Anti-malware scans for HTTP, SMTP, IMAP, POP3, and FTP traffic.	

29	Should be able to call 3rd party threat intelligence data on malicious IPs, URLs and Domains to the same firewall policy to block those malicious attributes and list should get updated dynamically with latest data.	
30	Should have a dual redundant power supply	
31	The proposed solution should support the ability to create QoS policy on a per rule basis- by source address, by destination address, by application (such as Skype, BitTorrent, YouTube, azureus, webex), by static or dynamic application groups (such as Instant Messaging or P2P groups), by port and services.	
32	Security functionalities allowed to be extended till the access port. Proposed Firewall, Core Switch, Access points should preferably from single OEM in case of multiple OEM's solution integration to be built by bidders.	
<b>Core Switch</b>		
<b>Make and Model</b>		
1	Switch should have 24x GE SFP ports with required transceivers from the day one.	
2	Switch should have 4x 10GE SFP+ ports or higher with the required transceivers from the day one	
3	Switch should provide 128 Gbps of switching capacity from the day one	
4	Switch should provide 190 Mpps of PPS throughput	
5	Switches should support Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)	
6	Switches should support VXLAN functionality	
7	Should be capable of supporting IPv6 from the day one.	
8	Should be capable of storing 32K MAC addresses.	
9	Should be capable of storing 4K VLAN's.	
10	Should support LLDP, LLDP-MED, MLAG (Multi-chassis link aggregation).	
11	should support Storm Control, Per-port storm control and LoopGuard	
12	Should support sFlow v5.	
13	Should support RSPAN/ERSPAN	
14	Should support Sticky MAC.	
15	Should support IGMP snooping , DHCP snooping and Dynamic ARP Inspection.	
16	Should have a dual redundant power supply	
17	Should support dual firmware option.	

18	Switch should provide class of service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and Differ	
19	Switch should use an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards	
20	All the solution should be managed by the central manager and if central management is unavailable it must have capability to get managed through proposed firewall itself.	
21	Security functionalities allowed to be extended till the access port. Proposed Firewall, Core Switch should preferably from single OEM in case of multiple OEM's solution integration to be built by bidders.	
22	Switches should be capable of providing visibility to the devices connected in to the connected ports	
	<b>Access Layer switch</b>	
	<b>Make and Model</b>	
1	Switch should have 2x 5G/2.5G/1G/100M, 8x 2.5G/1G/100M/10M RJ45 ports and should provide a POE Power Budget of 200W.	
2	Switch should have 4x 10 G SFP+ and transceivers to be provided from day 1.	
3	Switch should provide 140 Gbps of switching capacity	
4	Switch should provide 208 Mpps of throughput	
5	Switch should have a capacity of 32k MAC address table size	
6	Switch should provide traffic prioritization (IEEE 802.1p) allows real-time traffic classification into priority levels mapped to queues	
7	Switch should provide layer 4 prioritization based on TCP/UDP port numbers	
8	Switch should provide class of service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ	
9	Switch should provide Rate limiting sets per-port ingress enforced maximums and per-port, per-queue minimums	

10	Switch should support IEEE 802.1s Multiple Spanning Tree provides high link availability by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w	
11	Switch should support IEEE 802.3ad link-aggregation-control protocol (LACP) and port trunking support up to 8 static, dynamic, or distributed trunks with each trunk having up to eight links (ports) per static trunk and should support LACP Fallback	
12	Switch should support SNMPv1, v2, and v3 provide complete; support of industry-standard Management Information Base (MIB) plus private extensions; SNMPv3 supports increased security using encryption	
13	Switch should support dual flash images provide independent primary and secondary operating system files for backup while upgrading	
14	Switch should support custom port names to allow assignment of descriptive names to ports	
15	Switch should have VLAN support and tagging supports IEEE 802.1Q (4,094 VLAN IDs) and 4k VLANs supported.	
16	Switch should support jumbo packets to improves the performance of large data transfers; supported frame size of up to 9,000 bytes	
17	Switch should support Rapid PVST interoperation. Should support Spanning Tree Protocol MSTP native, and backwards compatible with STP, STP BPDU Guard and STP Root Guard and should support LLDP, LLDP-MED	
18	Switch should support DHCP server and Relay to centralize and reduces the cost of IPv4 address management	
19	Switch should support static IP routing to provide manually configured routing	
20	Switch should use an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards	

21	Switch should support multiple IEEE 802.1X users per port to provide authentication of multiple devices on a single port; which will prevent a user from piggybacking on another user's IEEE 802.1X authentication	
22	Switch should support RADIUS/TACACS+ to ease switch management security administration by using a password authentication server	
33	Switch should support secure shell encryption for all transmitted data for secure remote CLI access over IP networks	
24	Should support IGMP snooping, DHCP snooping and Dynamic ARP Inspection, Should support sticky MAC, Sflow v5.	
25	All the solution should be managed by the central manager and if central management is unavailable it must have capability to get managed through proposed firewall itself.	
26	Security functionalities allowed to be extended till the access port. Proposed Firewall, Core Switch, Access points should preferably from single OEM in case of multiple OEM's solution integration to be built by bidders.	
27	Switches should be capable of providing visibility to the devices connected in to the connected ports	
28	switch should support HTTP REST APIs for configuration and monitoring	
29	should support IP conflict detection and notification	

Camera Placement								
S.no	Bullet camera	Dome Camera	Multi Sensor Camera	Dual Sensor Camera	PTZ Camera	Corn er Mount Camera	QTY	Location
1	2				1		3	Main Entrance and Exit
2	2	2					4	Registration Area
3			1				1	OPD Entrance
4		1				1	2	OPD RECEPTION AREA
5		8					8	OPD Emergency Exit
6		4					4	OPD Staircase
7		8					8	OPD Canteen Outside
8				1			1	OPD Terrace
9		14					14	OPD Hospital Administrative Wing
10		4					4	OPD/IPD
11	2						2	OPD/IPD Waiting Area
12	2						2	OPD/IPD Parking
13		5					5	OPD/IPD Passage 1
14		5					5	OPD/IPD Passage 2
15		1		1		1	3	IPD Reception
16		10					10	IPD Stairs
17		25					25	IPD Lift
18		12					12	IPD Gallery
19				7			7	Admin Corridor 1st to 7th Floor
20							0	Admin Reception
21		8					8	Admin Lift Lobby
22		8					8	Admin StairCase
23		8					8	Admin Service Lift
24			1				1	Admin Lobby
25					1		1	Admin Block and IPD Bridge 2nd and 5th Floor
26	2	2				2	6	Medicine Dispensing Counter
27	1						1	Substation Gate
28							0	In-patient Department

29	2				1		3	Entrance Boundary Wall P1
30	2						2	Entrance Boundary Wall P2
31	2						2	Entrance Boundary Wall P3
32	2				1		3	Boundary Wall Passage P4
33	2						2	Boundary Wall opposite OPD Backside P5
34	2						2	Boundary Wall Med Disp Counter Backside P6
35	2						2	Boundary Wall Guard cabin New Building Vehicle Entrance P7
36	2						2	Boundary wall Opposite Parking P8
37	2						2	Boundary wall Opp In patient Department P9
38	2				1		3	Boundary wall Opp In patient Department P10
Total	31	125	2	9	5	4	176	



## Chapter-V

### Pre-Qualification Criteria for Bidders: –

1. The Bidder should be a Central Government PSU (Public Sector Unit) rendering eGovernance and SITC of CCTV surveillance system and video analytics system for a large integrated Institutions. The PSUs only which have the mandate to execute the SITC of CCTV surveillance system and video analytics system related works.
2. The average annual financial turnover of 'The bidder' during the last three years, ending on 31st March of the previous financial year 2023-24 should be **Rs 3.25 crore (Rupees Three crore and Twenty Five Lakh only)** as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.
3. The Bidder should not have suffered any financial loss for more than one year during the last three years, ending on 31<sup>st</sup> March of the previous financial year 2023-24. A certificate from the CA must be attached.
4. The Bidder should be one stop solution to "Design, Develop, Customize, Supply of Hardware and CCTV Surveillance System and Video Analytic Solutions infrastructure. The Bidder must have completed one similar nature of Supply Installation, Testing and Commissioning of CCTV and Video Analytic Solutions work in last three years, completion certificate which should be before closing of the bid.
5. The Bidder is required to submit certificate of completion of assignment from the respective institute as a proof of meeting the above qualifying criteria and submit copies of the completion certificate.
6. The Bidder should not be blacklisted in any of the Ministry/ Department / PSU / Autonomous Body of Government/ State Government.
7. The bidders should have ISO 9001-2000 / ISO: 27000 and other related.
8. The bidding entity must have authorization certificate from the OEM of the major equipment/Devices which are being offered by the bidder.
9. Signed copy of GST Registration and proof of latest quarter GST returns filed by the participating Bidder Company.
10. Signed copy of PAN Card in the name of bidding entity.
11. The bidders should not be bankrupt/under liquidation or blacklisted by any Government (Central or State)/PSU/Autonomous Bodies/or any other organization. A declaration to this effect must be submitted.
12. The bidder should submit valid letter from all the OEMs confirming the following: Documentary evidences such as Authorization letters MAF (Manufacturers Authorization Form) from Cameras, VMS, NVR and Network Switches proposed OEM quoted by the Bidder need to be attached in the proposal).

### 12. Experience and Past Performance:

- (a) The bidder should have completed "Supply, Installation, Testing and Commissioning of CCTV Surveillance System and Video Analytics Solutions with required IT infrastructure" with the same or higher specifications as per scope of work mentioned in the bid document during last three years, ending 31st March of 2024 as under:-
- (i). **One similar works of the value equal to 80% of estimated bid value or**
  - (ii). **Two similar works of the value equal to 50% of estimated bid value or**
  - (iii). **Three similar works of the value equal to 40% of estimated bid value**
- (b) The bidder must have a team of Engineers, Technicians and experts having sufficient expertise, experience and knowledge of the works under question and details of such team must be attached along with bid document in support of claim.

### **Pre-Qualification Criteria for OEM's**

- a. The CCTV surveillance system and video analytics system authorized OEM should have its toll-free number with Mobile app along with AI Chat bot for any technical support query from the SI or end customer which is very much required for such a big project.
- b. The MAC address of the IP cameras must be registered in the same name of OEM.
- c. The CCTV OEM must have self-owned service center for last 10 years from the date of submission of bid (not as joint venture, partnership firms or through any other association).
- d. The proposed camera OEM should be a member in any of the present "ONVIF Organization Committee i. Steering Committee/Technical Committee or Technical Services Committee or full membership for last 4 years.
- e. The OEM for IP Cameras & VMS should have a registered entity and direct presence in India for more than 10 years as on bid submission date and should be present globally in the same line of manufacturing for at least 15 years. Camera, NVR OEM should submit a declaration letter along with letter of incorporation confirming the same.
- f. The OEM of major items (like CCTV Camera of all types, VMS, Servers, Storages, switches etc.) its sister concerns, or any of its group company or Subsidiary should not have been blacklisted in last 10 years by an Ministry under Government of India or by Government of any State in India or any of the Government PSU as on tender floating date.
- g. The CCTV OEM Should Have Support Center with L1, L2 & L3 Support in India.
- h. The OEM for IP Cameras & VMS should have at least 50 employees on its payroll in India. Declaration letter from the HR/country Head/Director/CEO of OEM to be submitted along with the bid.
- i. All the Type of Cameras, VMS Software and NVR from Same OEM to avoid any Compatibility issue.
- j. The bidder should submit valid letter from all the OEMs confirming the following: Documentary evidence such as Authorization letters MAF (Manufacturers Authorization Form).
- k. The bidder should submit valid letter from all the OEMs confirming the following: Documentary evidence such as Authorization letters MAF (Manufacturers Authorization Form) from Cameras, VMS, NVR and Network Switches proposed OEM quoted by the Bidder need to be attached in the proposal).

### **Submission of Technical Bid**

- A. NIT in the form of hard copies duly signed, stamped and page numbering on each page will be considered.
- B. All the annexures/declarations and tender documents should be signed by authorized official of appropriate level only. Tender submitted in loose sheet/unsigned shall not be considered.
- C. The pages of tender document to be submitted by the bidder should be properly numbered and an index page with proper page number should be attached with the tender document.
- D. The bids both Technical and Financial duly filled in the prescribed Performa as mentioned in check list & Annexure V should be placed in sealed separate envelopes with a name of work written on the envelope and addressed to "The Director, All India Institute of Ayurveda (AIIA), Gautampuri, Sarita Vihar, New Delhi -110076.
- E. The 1st envelope (Technical Bid) shall contain the documents as mentioned in the terms and condition (Mentioned in the check list).
- F. The 2nd envelope (Financial Bid) shall contain price schedule of Quotation, duly signed, Stamped and pag

numbering by the authorized signatory of the bidder. **(Annexure-IV)**

**G.** The Technical bids shall be opened on the closing date of bid in **the Central Store, All India Institute of Ayurved (AIIA), Gautampuri, Sarita Vihar, Mathura Road, New Delhi 110076** in the presence of such bidders or the authorized representatives, who may wish to be present.

**H.** The bidders, whose technical bids are accepted, will be informed about the date of the opening of financial bids.

**I.** The Financial Bid of the Technically Qualified Bidder will ONLY be opened.

**J.** The price schedule of quotation as per format enclosed, duly signed, stamped and page numbering by the authorized signatory of the bidder is to be submitted. The unit rate and prices shall be quoted by the bidder entirely in Indian Rupee to be entered in words also. **K.** The breakup of Basic Price, GST, other taxes/charges, if any to be clearly mentioned in Indian rupee only.

**M.** Financial Bid in any other form except in the specified format given, will not be accepted and shall be **SUMMARILY REJECTED.**

**N.** Both the above envelopes should clearly be marked on top of envelope about type of envelope i.e., Name of NI and details of contents in envelope (Technical Bid/Commercial Bid as the case may be), name of agency submitting the bid and addressed to "**The Director, All India Institute of Ayurveda, Gautampuri, Sarita Vihar, New Delhi 110076**".

**O.** The main envelope containing the Technical Bids, Financial Bids and Earnest Money Deposit must be superscripted as '**Tender for Supply, installation, testing and commissioning of CCTV surveillance system and Video analytic system at All India Institute of Ayurveda**' (AIIA), New Delhi.

**P.** Please note that the envelope containing Technical and Financial Bids are sealed properly, i.e., either wax or with adhesive cello tape on both ends. Rates quoted should be neat and clean without cutting/overwriting. Applicability of Special Clause.

**a) Joint Ventures and Holding Companies:** Credentials of the partners of Joint ventures cannot be clubbed for the purpose of compliance of PQC.

**b) Supporting documents submitted by the bidder must be certified as follows:**

**(i)** All copy of supply/work order; respective completion certificate and contact details of clients; documents issued by the relevant Industries Department/National Small Industries Corporation (NSIC)/manufacturing license; annual report, etc., in support of experience, past performance and capacity/capability should be authenticated by the person authorized to sign the tender on behalf of the bidder. Original Documents must be submitted for inspection if so demanded.

**(ii)** All financial standing data should be certified by certified accountants, for example, Chartered Accountants/Cost Accountants or equivalent in relevant countries; and Indian bidder or Indian counterparts of foreign bidders should furnish their Permanent Account Number. Signed and attested legible scanned copies of at least three Numbers of Previous Purchase Order Copies for each of participating item, which has been supplied to various reputed Government Hospitals/Institutions/PSU's/Other reputed Hospitals/Institutions in India in last Three Financial Year in Chronological Order from FY-2021-2022 to FY-2023-2024 for pre-qualification bid evaluation purpose.

**3.** Signed copy of duly filled-in PFMS Form of AIIA, DELHI in the format given at **Annexure- VIII.**

**4.** A checklist of documents submitted must be attached as per **Annexure-IX.** In absence of that, offer will be rejected out rightly.

## Chapter-VI

### Time Schedule for Completion of the Work: -

(i)	Preliminary Estimate	One Week after the Lol is placed on the selected bidder
(ii)	Submission of Performance security	Within One week after LOI
(iii)	Commencement and mobilization activities	One Week after
(iv)	Completion of work, Testing, Training, hand-holding and hand over	Work Duration 90 Days from the commencement of the mobilization activities.

### Penalty:

If the agency/organization/institution is not able to complete the work in time the agency would be liable to be penalized as follows: - For delay: .5% of the awarded value of works (excluding taxes) per week or part of it subject to maximum of 10% of the awarded value.

### Saving Clause:

The Director, AIIA has the right to terminate the contract at any time if it comes to know that the contract has been procured fraudulently or misrepresented and corrupt practices and forfeit the security / bank guarantee etc.

### Court Jurisdiction:

In case of any dispute, this shall be subject to the exclusive jurisdiction of Court at Delhi/New Delhi.

### Approved Make:

The bidder has to quote rate from best compatible OEM makes for Active components ie. (Cameras and Switches) in this request for Proposal.



**Annexure-I**

**Declaration for non-association with other bidders**

I,We, M/S.....hereby undertake and accept that if I/We are Not Associate with other bidders.

I/We.....shall have no objections if I/We am/are suspended for the two years from being eligible to submit bids for contracts with ALL India Institute of Ayurveda New Delhi if any association is found with other bidders.



**Seal,**

**Name:**

**Address of the bidder/Authorized person:**

**Email Id:**

**Telephone No:**

**Date:**

## Annexure-II

### Bid Security Declaration by the Bidder

I/we, M/s -----hereby undertake and accept that if I/W withdraw or modify my/our Bids during the period of validity, or if I/We am/are awarded the contract and I/We failed to sign the contract, or to submit a performance security before the deadline defined in the request for bid document, I/We -----sha have no objection if I/We am/are suspended for the two years from being eligible to submit Bids for contracts with All India Institute of Ayurveda, New Delhi.




Seal, Name & Address of the Bidder/Authorized person:

Telephone No. & Email ID:

**Undertaking for Compliance of MHA (Police Modernization Division, Prov-III Desk), Govt. of India, order No. IV-24011/22/2020-Prov-I/270 dated 26.04.2024**

I/We, M/S.....hereby undertake and accept that I/we shall abide the strict adherence of MHA (Police Modernization Division, Prov-III Desk), GOI, Order No. IV-24011/22/2020-Prov-I/270 dated 26.04.2024 and relevant guidelines of "Amendment to the electronics and information technology goods (requirement of compulsory registration) order, 2021" (essential requirement of security of CCTV) issued by Ministry of electronics and Information Technology (IPHW Division).



Seal,

Name:

Address of the bidder/Authorized person:

Email Id:

Telephone No:

Date:

**Manufacturer Authorization Form**  
(On the letterhead of the Manufacturer)

To,  
The Director  
All India Institute of Ayurveda,  
Gautampuri Sarita Vihar,  
New Delhi - 110076

Sir/Madam,

Ref. Your Tender Document No. -----dated----- We,  
-----who are proven and reputable manufacturers Of  
-----having factories at----- hereby authorize M/s (name and  
address of the bidder) to submit a tender, process the same further and enter into a contract with  
you against your requirement as contained in the above referred Tender which are manufactured  
by us.

- 1) We further confirm that no supplier or firm or individual other than Messrs. (name and address of the above agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred Tender Enquiry documents for the above Equipment / Stores manufactured by us.
- 2) We also hereby confirm that we would be responsible for supply, installation and execution of warranty of the goods under question and will provide spares parts for the period of at least 5 years for supplied item to AIIA DELHI after expiry of warranty.
- 3) We also undertake to execute warranty/guarantee during its period along with spare parts.

[Signature with date, name and designation]

For and on behalf of M/s.....

[Name & address of the manufacturers]

1. This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a competent person and having the power of attorney to legally bind the manufacturer.
2. Original letter's scanned copy may be uploaded and handed over as and when directed.





## Financial Bid

Price Schedule for as per NIT Major Item (All prices to be cover under these heading only) category Wise

S.no.	Description	Quantity	Unit Price	Total Price
1	<p><b>SITC of 5 MP Fixed Bullet :-</b> Supply, Installation, Testing &amp; Commissioning of H.265 5 MP IR Vandal Proof Bullet N/W Camera, Image Sensor 1/2.8" Progressive Scan CMOS Sensor ,Effective Pixels 1920 × 1080 ,S/N Ration≥52 dB AGC ON , Memory Capacity,1GB RAM and 512MB Flash,Focal Length 2.7mm to 13.5mm Motorized, Max. Frame Rate 30fps @ all resolution (up to 60 fps with TWDR off),EIS,Slow Shutter,Dual Audio Communication Bi-directional audio (2- way), 1IN/1OUT,Wide Dynamic Range True WDR, 120dB ,IR Distance Up to 70m, Defog, Multiple Exposure Method, 2D/3D DNR,Corridor Pattern ,8 zones video privacy mask, Video Analytics Object Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class, Trigger Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned / Removed, Enter, Exit, Crowd, Queue, Object Sub-Classes: Person Clothing Colour, Vehicle Colour AI Tamper Detection, AI Object Analytics, Blackout, Whiteout, Scene Change (FoV tamper),AI based Blur Detection, Edge Storage Built-in micro SD card slot, up to 1TB (Encrypted Storage),Network Protocol Support - TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, Multicast, NTP, SMTP, WS-Security, SNMP, CIFS, FSTP, UPnP™, SIP,ONVIF Profile S, G, T &amp; M,Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE Cyber Security 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming,Internal MIC x1, Line IN × 1, Line OUT × 1,CVBS video output (BNC × 1),CE, FCC, UL &amp; BIS,NDAA.IP 67 ,IK 10 with 5 Years Warranty and Support etc. as required..</p>	31		
2	<p><b>SITC of 5 MP Fixed Dome :-</b> Supply, Installation, Testing &amp; Commissioning of H.265 5 MP IR Vandal Proof Dome N/W Camera, Image Sensor 1/2.8"</p>	125		

	<p>Progressive Scan CMOS Sensor ,Effective Pixels 1920 × 1080 ,S/N Ration≥52 dB AGC ON , Memory Capacity 1GB RAM and 512MB Flash,Focal Length 2.7mm to 13.5mm Motorized,Max. Frame Rate 30fps @ all resolution (up to 60 fps with TWDR off),EIS,Slow Shutter,Dual Audio Communication Bi-directional audio (2-way), 1IN/1OUT,Wide Dynamic Range True WDR, 120dB ,IR Distance Up to 50m, Defog, Multiple Exposure Method, 2D/3D DNR,Corridor Pattern ,8 zones video privacy mask, Video Analytics Object Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class, Trigger Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned / Removed, Enter, Exit, Crowd, Queue, Object Sub-Classes: Person Clothing Colour, Vehicle Colour AI Tamper Detection, AI Object Analytics, Blackout, Whiteout, Scene Change (FoV tamper),AI based Blur Detection, Edge Storage Builtin micro SD card slot, up to 1TB (Encrypted Storage),Network Protocol Support - TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WSDiscovery, DNS, DDNS, RTP, TLS, RTSP, ICMP, Unicast, Multicast, NTP, SMTP, WS-Security, SNMP, CIFS, FSTP, UPnP™, SIP,ONVIF Profile S, G, T &amp; M,Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE Cyber Security 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming,Internal MIC x1, Line IN × 1, Line OUT × 1,CVBS video output (BNC × 1),CE, FCC, UL &amp; BIS,NDAA .IP 67 ,IK 10 with 5 Years Warranty and Support etc. as required..</p>			
3	<p><b>SITC of Multi Sensor Camera :-</b> Supply, Installation, Testing &amp; Commissioning of 20 MP Multisensor camera with Video Compression H.264 / H.265 / MJPEG, Max Frame Rate 5MP @ 30fps, 2MP @ 60fps, Imager Sony 1/2.8" CMOS image sensor, Image Orientation Settings None, Mirror, Flip, Flip and Mirror, Corridor (rotate 90° right or left) Video Streams Quad Streaming (per sensor) Bitrate Control CBR, VBR, CVBR Lens Type Motorized Varifocal and Focus, P-Iris Focus Control One-Touch Auto Focus or Remote Adjustment, Focal Length 2.7-13.5mm motorized, IR Distance Up to 30 m (98 ft) Dynamic Range True WDR 120 dB Technologies SmartWDR Supported Day/Night True Day/Night CF Removal, AI Face-Detection Supported AI Object Classification Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Cart, Backpack, Handbag, Suitcase, Any Class Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue Sub-Classes: Person Clothing Colour, Vehicle Colour AI Tamper Detection Blackout, Whiteout, Scene</p>	2		

APZ

	<p>Change (FoV tamper), Security Secure Boot, Enhanced Security Mode (forces complex passwords, HTTPS and disables discovery); TLS, 1.2 (256 bit cipher minimum); Security Overview Page (status and configuration); RTSP Authentication; IEEE 802.1X Client; Remote Accessible Audit logs; Role-Based Access Control, Video Encryption for local storage and streaming. Card Support Built-in Quad Micro SDXC slot up to 2TB per slot ,UL,CE,FCC,NDAA,TAA,BIS with 5 Years Warranty and Support etc. as required..</p>		
4	<p><b>SITC of Dual Sensor Camera :-</b> Supply, Installation, Testing &amp; Commissioning of 10 MP Dual sensor camera with Image Sensor Sony 1/2.8" Progressive Scan CMOS imager, Lens 3.42 mm – 6.85 mm, motorized focus and zoom, P-Iris F/1.85(W) – F/2.4(T) One Touch auto focus, manual and automatic focus with zoom , Memory 2048 MB RAM, 8192 MB Flash, Video Compression H.264/H.265/MJPEG Bitrate Control CBR/VBR/CVBR (configurable) Resolution (HxV) &amp; Aspect Ratio 4:3: 2x 2560x1920 (2x 5MP) to 480x272, AI Object Classification Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue Sub-Classes: Person Clothing Color (Upper, Lower), Vehicle Color AI Tamper Detection Blackout, Whiteout, Scene Change (FoV tamper), Onboard Storage 2 x microSDXC slots, Class 10 or better, upto 2TB supported (1TB per slot) , IP67, NEMA 4x and IK10 rated, UL,CE,FCC,NDAA,TAA,BIS with 5 Years Warranty and Support etc. as required..</p>	9	
5	<p><b>SITC of Corner Mount Camera :-</b> Supply, Installation, Testing &amp; Commissioning of corner mount camera with Image sensor Sony 1/2.8" progressive scan ultra-lowlight CMOS sensor Lens 2.3 mm, F2.2, fixed focus, fixed iris Field of view: Horizontal 132°, vertical 97° Day and night True D/N by mechanically removable IR-cut filter, thresholds adjustable Minimum illumination Color: 0.17 lux B/W: 0.06 lux 0 lux when IR on Shutter speed 1/32,000 sec ~ 1/4 sec IR illumination 940 nm invisible IR, effective 10x10 m (33x33 ft) space White light illumination White LED, luminance or warning, effective 2x2 m (6.5x6.5 ft) space. Video compression H.264 HP/MP, H.265 HP, Motion JPEG Resolution and frame rate Up to 2560x1920 (4:3) at 30/25 fps Video streaming smart compression in H.264 and H.265 Quad streaming CBR/VBR/CVBR configurable bitrate control Higher compression ROI Wide dynamic range True WDR 120dB technologies Smart WDR, TWDR 2x, TWDR 3x Smart Defog Smart image processing AI Auto exposure: Object, person, face Smart auto exposure profiles: Gaming, LPR, various others Image settings Configurable color contour,</p>	4	

	<p>auto exposure, AE compensation, auto white balance, auto gain control, auto electronic shutter, flickerless, image orientation, text overlay Digital noise reduction 2D/3D Privacy mask Image stabilization Electronic image stabilization (EIS), AI Object classifications Classes Person Vehicle Retail Suspicious objects Person Bicycle, bus, car, motorbike, train, truck Cart Backpack, handbag, suitcase Sub-classes Person clothing colors (upper, lower), vehicle colors Rules Object detected, abandoned/removed objects, direction, linger, dwell, enter, exit, crowd, queue, perimeter, Cyber security ISASecure ISA/IEC 62443-4-1 certified secure development Secure boot Signed and encrypted firmware Network security Multi-level password protections, brute force delay protection, IP address filtering, HTTPS encryption, IEEE 802.1x (PEAP, EAP-TLS, EAPoL), digest authentication, HTTPS over TLS, WSSecurity, certificate management, enhanced security (one-click security hardening, user access log, validate complex credentials, disabling unused protocols),UL,CE,FCC,NDAA,TAA,BIS with 5 Years Warranty and Support etc. as required..</p>		
6	<p><b>SITC of 2 MP Speed Dome :-</b> Supply, Installation, Testing &amp; Commissioning of 2 MP IP Speed Dome Camera with 200 mtr. IR LEDs and a focal length 30x, MFZ, P-iris sony Image Sensor 30X Zoom . The camera delivers up to 30 fps with H.264/H.265/H.265 CCTV at full resolution and can be operated via PoE or 12 VDC.with Dynamic Live streaming IK10 and IP66, NEMA 4X . 1920 x 1080 (2MP) to 480x272, default 720p, microSDXC slot, Class 10 or better, upto 1TB supported , Encrypted storage and streaming, Application Programming Interface ONVIF Profile S, G, T, M conformant, Micro USB via optional USB Wi-Fi Dongle, Analytics AI Object Classification Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Any Class Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned/Removed, Enter, Exit, Crowd, Queue, Direction Sub-Classes: Person Clothing Color (Upper, Lower), Vehicle Color.UL,CE,FCC,NDAA,BIS with 5 Years Warranty and Support etc. as required.</p>	5	
7	<p>SITC of Video Management Software shall be compatible with 64-bit Windows operating systems 8.1, 10 and Server 2019 Essentials, use a,VMS shall contain 10 client accesses to live streams or the media database, shall have full 64-Bit implementation and GPU acceleration for image processing and viewing functions, The software shall have an extremely fast metadata search due to the SQL database ,The database shall be able to be expanded dynamically at any time without image loss . Customizable video wall,Two-way audio, Interactive &amp; multi-level mapping, Data integration from retail and</p>	176	

	<p>access control systems, Notification overlays, Push individual live cameras or an entire view of live cameras to another user or public view monitor, Powerful thumbnail, timeline and list search capabilities, Export video in open-standard video formats Or export as a self-contained player with tamper protection, VMS is compatible with: Over Thousands of IP camera models and encoders from more than 60 manufacturers, 20 access control systems, Video analytics solutions for license plate recognition, and intrusion detection , Create hierarchical nesting of maps for faster camera and device navigation, EasyConnect automatically finds, assigns and addresses certain IP cameras to the network, Auto-detection and connection of most IP cameras, Easily add IP camera licenses at any time, Per camera licensing with no base server fee with 5 Years Warranty and Support etc. as required.</p>			
8	<p>SITC of Video Analytics- Crowd and People Counting with 5 Years Warranty and Support etc. as required.</p>	2		
9	<p>SITC of Perimeter protection for Boundary Wall with 5 Years Warranty and Support etc. as required.</p>	18		
10	<p>SITC of Option to provide the integrated license plate recognition LPR in a G-Core system. The image data of the selected channel are displayed depending on the set parameterization and the country code for number plate information. Note: In order to ensure constant performance, customer-specific requirements must be included in system planning. A GDongle/LPR or a Softdongle/ANPR on the analytics server is required for activation. One option is required per lane etc. as required with 5 Years Warranty and Support.</p>	4		
11	<p>SITC of Option for controlling and documenting vehicle movements at entrances and exits using the Vehicle Access Manager. All processes are recorded in a central SQL database. Day-end reports can be created and archived with just a few clicks With 5 Years Warranty and Support.</p>	1		
12	<p>SITC of Hardware platform for software solutions. Continuous stability and performance tests guarantee the trouble-free operation and functionality of the safety systems in combination with the latest version of the software with 5 Years Warranty and Support.  Processor -Intel® Xeon® 12 core or higher  RAM - 64GB or higher  Storage capacity -2*500GB  Storage capacity -2TB sata RAID 5  GPU - Nvidia GPU 20 GB or higher</p>	1		

13	<p>SITC of Rack mount single chassis Network Video Recorder with dual Gb NIC, , max 2 simultaneous monitors, RS232/485 serial port, NVR should support up to connect min 128cameras per appliances, Continuously record up to 1200 Mbps (Windows) ,1900 Mbps (Linux) of video for high concentration of high definition IP cameras Local client display rate, Windows OS, up to 700 frames per second Linux OS: up to 900 frames per second, Support streaming live / recorded video up to 500 simultaneous PC clients, NVR should Two way audio feature Processor: Gen 4 Intel® Xeon E3 , Windows &amp; Linux platform with 2x1 Gbps NIC and 32 GB of RAM and 8 USB slot (It should be configured as per the storage calculation provided by VMS OEM), IDVI-I, HDMI, Display ports, max 2 simultaneous monitors , NVR should support Maximum 20 HDD slots with 18 TB HDD per slot and It should support minimum 360 TB of storage with RAID 6 . Windows, operating system shall boot and run on a solid-state drive (SSD) to ensure high performance and reliability RAID one is also on Operating system. NVR shall have 2 Gigabit 1000Base-T RJ-45 NIC card NVR shall have RS-485 serial port capabilities to communicate with serial devices Requirement is of critical nature and hence offered NVR must be of global standards and hence should be CE, FCC and UL certified. It should support 8/4 Alarm Inputs/Output NVR shall have Dual Hot Swap redundant Power Supplies Operating Temperature 40° - 95°F (4.5° - 35°C) Pre-loaded Operating System must be on windows platform, MS should also be included if required etc. including 360TB of storage inbuilt in each video recorder with 5 Years Warranty and Support.</p>	2		
14	<p>SITC of Hardware platform for software solutions. Continuous stability and performance tests guarantee the trouble-free operation and functionality of the safety systems in combination with the latest version of the software. Including operating system Windows 10 on SSD with 12th Generation in built in Hardware, I7 processor and 16 Gb RAM and GPU Acceleration The basic device must be extended by the following components: CPU, PSU Optionally up to 4 HDDs and PCIe components can be configured. Please note: The parameterization of the system determines the required hardware including 21" monitor and keyboard with 5 Years Warranty and Support.</p>	6		
15	<p>SITC of automatic Boom Barrier (Electromagnetic) with octagonal shape boom, Arm length 4 Meters, open/close time 3 to 4 second, IP-54 protection with pair of remote control, push button and photo cell safety sensor with 5 Years Warranty and Support.</p>	1		

16	SITC of Lift Communication & Operation with Single emergency call button with 5 Years Warranty and Support.	9		
17	Switch with 24 port X 1G Fiber slots with Expansion slots, with swathing capacity of minimum 240 Gbps and stacking bandwidth of minimum 700Gbps and dedicate stacking ports and forwarding rate of 180 Mpps with stacking kit/ports and stack cable of minimum length 50cm. with 5 Years Warranty and Support.	2		
17.1	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	68		
17.2	1000BASE-T SFP transceiver module for Category 5 copper wire	10		
18	SITC of 8 port POE with 200 Watt POE Budget and 4 x 10sfp+ uplink with SFP with 5 Years Warranty and Support.	36		
19	SITC of NGFW- Firewall with 5 Years Warranty and Support.	1		
20	SITC of LED Video Panel of Size 55", 1.8 MM Bezel Brightness 500 nits with Push Pull Bracket with 5 Years Warranty and Support.	4		
21	SITC of 6 U Rack Indoor With Accessories with 5 Years Warranty and Support.	31		
22	SITC of 6 U Rack Outdoor With Accessories with 5 Years Warranty and Support	6		
23	SITC of 42 U Rack Indoor With Accessories with 5 Years Warranty and Support	1		
24	SITC of 10 KVA Ups with 30 Minute Backup: As per Technical Specification	1		
25	SITC of Network points, Included Cat 6 UTP Cable , Singal Mode Fiber Cable , CAT 6 and Fiber Patch Cord, 4 Mtr. Pole and Bullet Camera Mount With Accessories with 5 Years Warranty and Support.	176		
26	One time Installation, Testing, Commissioning and 5 years support of Active and Passive Components.	1		

	Total Price Without GST	
	GST @18%	
	Total Price With GST	
	Total Price in Words-	

Name(s) & Signature of Authorized person with seal of the Bidder



Date.....

Place.....



**PERFORMANCE BANK GUARANTEE (PBG) FORMAT**  
**(On the letterhead of the Issuing Bank)**

To, The Director  
All India Institute of Ayurveda,  
Gautampuri, Sarita Vihar,  
New Delhi – 110076

WHEREAS -----(Name and address of the  
supplier)----- (Hereinafter called "the supplier")  
has undertaken, in pursuance of contract no.----- dated-----  
to supply (Equipment/Stores and services) (hereinafter called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee from nationalized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract;-

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to being default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein. We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. This guarantee shall be valid up to 14(fourteen) months from the date of satisfactory installation of the Equipment/Stores in the User Department at AIIA, DELHI i.e. upto\_\_\_\_\_.(indicate date).

(Signature with date of the authorized officer of the Bank) Name and designation of the officer  
Seal, name & address of the Bank and address of the issuing Branch, including TelephoneNo. &  
Email ID





**UNDERTAKING**

(To be executed on Rs.100/-Non-judicial Stamp Paper duly attested by Public Notary)

**For Compliance of all Terms & Conditions mentioned in this Tender Document**

1. The undersigned certify that I/we have gone through the terms and conditions mentioned in the tender document and undertake to comply with them. I have no objection for any of the content of the tender document and I undertake not to submit any complaint/ representation against the tender document after submission date and time of the tender. the rates quoted by me/user valid and binding on me/us for acceptance till the validity of tender.
2. I/We undersigned hereby bind myself/ ourselves to ALL INDIA INSTITUTE OF AYURVEDA DELHI, GAUTAMPURI SARITA VIHAR, DELHI-110076 to complete the assigned work on approved prices to AIIA DELHI, during the specified period under this contract.
3. The articles/devices used shall be of the best quality and of the kind as per the requirement of the institution. The decision of the Director, AIIA DELHI, India (hereinafter called the said officer) as regard to the quality and kind of article shall be final and binding on me.
4. Performance security 8% of the cost of the supply value shall be deposited by me in the form of FDR/ Bank Guarantee in the name of The Director, All India Institute of Ayurveda, DELHI in the format at Annexure-VI attached herewith on award of the contract and shall remain in the custody of the Director till the validity of the Tender Contract plus two months (i.e., for 62 months).
5. Should the said officer deem it necessary to change any article on being found of inferior quality, it shall be replaced by me/us free of cost in time to prevent in convenience.
6. If I/We fail to complete the works in stipulated period the AIIA has full power to compound or forfeit the Bid Security/security deposit.
7. I/We declare that no legal/ financial irregularities are pending against us.
8. I/We undertake that the rates quoted by me when approved and selected by the Director, AIIA DELHI will be valid for one year from the date of approval of the rate contract in the format given in Annexure-V or till extended as mutually agreed upon. I/we undertake to supply the equipment/stores will be as per the Terms & Conditions in tender document.

I/we undertake to supply the order with in stipulated period and if fail to supply order during the stipulated period then necessary action can be taken by the Director, AIIA, DELHI.

9. I/We undertake that if the rates of any items are lowered due to any reason, I will charge the lower rates.

10. Affidavit regarding No CBI Inquiry/ FEMA/ Criminal proceeding/ Black listing is pending or going on against the manufacturer/ bidder firm is also enclosed. I undertake that I will not submit any irrelevant documents with the tender and in doing so I will not have any objection if my tender is



rejected on that ground.

11. I/We undertake to supply the all Literature (Log Book/Maintenance Record/ Troubleshooting/ Operation Manuals etc.) supplied with each of equipment by Principal Manufacturer in Original to AIIA, DELHI.
12. I/we do hereby confirm that the prices/ rates quoted are fixed and are at par with the prices quoted by me /us to any other Govt. of India/ Govt. Hospitals/ Medical Institutions/PSUs. I/we also offer to supply the Equipment/ stores at the prices and rates not exceeding those mentioned in the Financial Bid.
13. I/we do accept/ agree for the all clauses including the 5 years onsite Warranty inclusive of all spares and labour etc.
14. I/we have necessary infrastructure for the maintenance of the site.
15. I/we undertake those complaints will be resolved within 24 hours of the receiving from the Hospital failing which penalty may be recovered from pending bill/Bank Guarantee before releasing the same to us after 62 months as per penalty clause of RFP Document.
16. I/we undertake, If as a result of post payment audit any over payment is deducted in respect of any Supply/work done by our Agency or alleged to have been done by our Agency under this tender, it shall be recovered by the AIIA DELHI from our Agency.
17. I/We do hereby confirm that I/we aware about the provisions of "Make in India" initiatives and directives regarding Price Preference Policy to Make in India Registered Bidders and I/We undertake for following the same as per directions of AIIA DELHI in respect of this Tender Enquiry.
18. I/We undertake to respect Anti-Profiteering Rule under GST Act 2017 of Govt. of India and will have mandatory to pass on the benefit due to reduction in rate of tax to the AIIA, DELHI by way of commensurate reduction in our prices. And if I/we will be found defaulter for following of above said rule (i.e. passing all the benefits of GST Tax Regime price reductions to AIIA, DELHI), the AIIA, DELHI have the right to initiate necessary action deemed fit as per GST Act, 2017 against our firm.
19. I/we undertake, If as a result of post payment audit any over payment is deducted in respect of any Supply/work done by our Agency or alleged to have been done by our Agency under this tender, it shall be recovered by the AIIA DELHI from our Agency.
20. I/we undertake that we shall liable to provide all the relevant records copies during the concurrency period of Contract or otherwise even after the Contract is over, whenever required by AIIA, DELHI.
21. I/We do solemnly pledge and affirm that I/We have not been declared defaulter by any Govt. agency and that no case of any nature i.e., CBI/FEMA/Criminal/Income Tax/GST/ Blacklisting is pending against my/our firm.
22. I pledge and solemnly affirm that the information submitted in tender documents is true to the best of my knowledge and belief. I/We further pledge and solemnly affirm that nothing has been concealed by me and if anything, adverse comes to the notice of purchaser during the validity of tender period, the Director, All India Institute of Ayurveda, DELHI (India) will have full authority to take appropriate action as he/she may deem fit.



23. We are also undertaking that the Department of Commerce or Ministry/any other Department has been not debarred/blacklisted our firm as per best of our knowledge, if any such debarment/blacklisting come to the notice of AIIA DELHI Authorities during execution of Supplies against this Tender Enquiry, AIIA DELHI have right to reject our proposal and take appropriate action deemed fit against our firm as per prevailing applicable Rules & Regulations.

Signature, Name of Authorized Person of the Bidder with  
seal.



Date:.....

Place:.....

## Annexure-IX

PUBLIC FINANCIAL MANAGEMENT SYSTEM(PFMS) REGISTRATION FORM		
PFMS UNIQUE CODE:		
VENDOR REGISTRATION FORM		
Sl. No.	Head Name	Details
1.	Vendor Name	
2.	Father/Husband/Partner/Director/Owner Name/	
3.	Date of Incorporation/Estb	
4.	PAN Number	
5.	GSTIN	
6.	TAN	
7.	Aadhar Number	
8.	Address1	
9.	Address2	
10.	Address3	
11.	City	
12.	Country	
13.	State	
14.	District	
15.	Pin Code	
16.	Mobile No.	
17.	Phone No.	
18.	Email ID	
19.	Bank Name	
20.	IFSC Code	
21.	Account Number	
DATE:		
PLACE:		VENDOR SIGNATURE WITH SEAL
<b>Note:</b>	<i>All related self-attested documents also enclosed with this form</i>	

**CHECKLIST FOR TENDER**

Index page for technical bid evolution (Must be filed properly and to be first page of technical bid)

(Check list should be placed at the beginning of the bid document)

S.no	Name of documents	Page Number in submitted bid
1	The average annual financial turnover for the last three years, ending on 31st March 2024, as per the annual report (audited balance sheet and profit & loss account)	
2	Bidder should not have suffered any financial loss for more than one year during the last three years, ending on 31st March of the previous financial year 2023-24. A certificate from the CA must be attached	
3	The Bidder should be one stop solution to "Design, Develop, Customize, Supply of Hardware and ICT Infrastructure. The Bidder must have completed one similar nature of ICT works before closing date of bid.	
4	The Bidder should not be blacklisted in any of the Indian Government Department.	
5	The bidders should have ISO 9001-2000 / ISO: 27000 and other related.	
6	Original Equipment Manufacturer authorization	

7	<p><b>Experience and Past Performance:</b></p> <p>(a) The bidder should have manufactured and/ or supplied/completed "Supply, Installation, Commissioning, CCTV Surveillance System and Video Analytics Solution/ IT Infrastructure " with the same or higher specifications as mentioned at Annexure-I during last three years, ending 31st March of the previous financial year 2023-24 as under</p> <p>(i) One similar works of the value equal to 80% of bid value or  (ii) Two similar works of the value equal to 50% of bid value or  (iii) Three similar works of the value equal to 40% of bid value</p>	
8	GSTN	
9	PAN	
10	Dedicated/Toll free No.	
11	Escalation Matrix	
12	Non-blacklisting/financial standing declaration	
13	Bid Signatory authorization, if required	
14	Signed NIT document Sign must be on each page	
15	Experience with documents (Works detail and year in which completed and Value in INR)	
16	Annexure-I	
17	Annexure-II (Bid Security Declaration)	
18	Annexure-III	
19	Annexure-IV	
20	Annexure-V	
21	Annexure-VI	
22	Annexure-VII	
23	Annexure-VIII	
24	Annexure-IX	
25	Annexure- X	

**Date:**

Signature of the Authorized person Seal