

Bid Document

Name of Work: Selection of Agency for Supply, Design, Installation, testing, Commissioning and warranty & comprehensive maintenance support of various Equipments for the Implementation of Video Surveillance System at various Police Station on behalf of The DG & IG of Police, Home Department, Govt. of Gujarat, Gandhinagar

RFP.NO. GIL\Police Station\Video Surveillance\2018-19

DATE: 12.10.2018

TENDERER: The DG & IG of Police, Home Department, Govt. of Gujarat, Gandhinagar

Pre-Bid Meeting:

Date & Time: 25.10.2018 at 1500 hrs

Venue: Gujarat Informatics Limited
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010

Bid Due Date: 06.11.2018 up to 1500 hrs.

Un-priced Bid Opening:

Date & Time: 06.11.2018 at 1700 hrs.

Venue: Gujarat Informatics Limited
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010

Bidding Agency Address:

Gujarat Informatics Limited
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010
Phone No.: 079 - 232 56022, Fax No.: 079 - 232 38925
Website: www.gil.gujart.gov.in

Note: Please address all queries and correspondence to

DGM (Tech)

Gujarat Informatics Limited,
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010
Phone: 079 - 232 56022
E-mail: viveku@gujarat.gov.in

Introduction

Gujarat Informatics Limited (GIL), on behalf of Home Department, Govt. of Gujarat, Gandhinagar (herein after referred as the “ TENDERER”) invites the bid for Selection of Agency for Supply, Installation and Commissioning of various Equipment’s for the Implementation of Video Surveillance System at various Police Station.

The selected Agency shall be fully capable and experienced in the work of carrying out Video Surveillance / CCTV System including Application Software.

The Selected Agency must have trained and certified manpower including technicians capable of carrying out this job. The agency is required to deploy the trained & experienced manpower for this project.

Successful bidder will have to supply, install & perform the acceptance test of the supplied equipment(s) at each location as per terms and conditions of the bid document.

Bidder is requested to offer the cost for all the items and all the accessories as mentioned in bid document. GIL does not guarantee any fixed quantity at the time of signing the tender.

Bids are hereby invited from the Bidders having capability and resources in supplying & carrying out Video Surveillance System at various Police Station as per the details in bid.

Proposal in the form of BID are requested for the item(s) in complete accordance with the documents to be uploaded as per following guidelines:

- 1) Bidder shall submit their bids on <https://www.gil.nprocure.com>.
- 2) The Bidder will have to remit Non-Refundable Bid Processing Fees of **Rs. 17,700/-** & Earnest Money Deposit (E.M.D.) of **Rs. 2,50,000/-** (Rupees two lakh fifty thousand) (Refundable) **on or before the date & hours of submission of bid (i.e. 06.11.2018 up to 1500 Hrs)** in a sealed cover at GIL office with the heading “Bid processing fees & EMD for RFP no. GIL\Police Station\Video Surveillance\2018-19 for Selection of Agency for Supply, Installation, Commissioning and warranty & Maintenance support of various Equipment’s for the Implementation of Video Surveillance System at Police Station.
 - a. Bid processing fees must be in the form of Demand Draft in the name of “Gujarat Informatics Ltd.” payable at Gandhinagar along with the covering letter.
 - b. EMD as mentioned above, shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee (which should be valid up to validity of **15 months** from the date of bid submission) of any Nationalized Bank (operating in India having branch at Ahmedabad/ Gandhinagar) in the name of “Gujarat Informatics Ltd.” payable at Gandhinagar (as per prescribed format given at as per prescribed format given at Annexure A) and must be submitted along with the covering letter.
 - c. Please affix the stamp of your company on the overleaf of demand draft.
 - d. **Note:** Failing to submit physical covers of EMD and bid processing fees at GIL on or before **06.11.2018 up to 1500 Hrs** may lead to the rejection of the bid
- 3) The bid shall specify time schedule of various activities.
- 4) Bid complete in all respects should be uploaded on or before the Bid due date.
- 5) Interested and eligible Bidders are required to upload the eligibility related document in Eligibility Bid Section, technical related document in Technical Bid Section & commercial bid in Commercial Bid Section. The Bids should be accompanied by a bid security & bid processing fees (non-refundable) as specified in this Bid Document. The Eligibility, Technical & Commercial Bid must be uploaded to

<https://gil.nprocure.com> & the Bid Security and Bid Processing Fees must be delivered to the office of Gujarat Informatics Ltd.

- 6) **The Bidder may quote only one option (i.e. one products can be quoted) against each item.** Bidders are required to mention Make and Model of the product (Do not write “OEM” against items. Bidders are expected to give make and model of the product).
- 7) The Bid Processing Fees & Bid Security Section and Eligibility Section will be opened on the specified date & time in presence of the committee members and representatives of the bidders who choose to attend. The representative will be held responsible for all commitments made on behalf of the bidder and that will be considered valid for all further dealings related to this tender process.
- 8) Services offered should be strictly as per requirements mentioned in this Bid document. Please spell out any unavoidable deviations, Clause / Article-wise in your bid under the heading Deviations.
- 9) Once quoted, the bidder shall not make any subsequent price changes, whether resulting or arising out of any technical/commercial clarifications sought regarding the bid, even if any deviation or exclusion may be specifically stated in the bid. Such price changes shall render the bid liable for rejection.

Section - 1

Eligibility Criteria

1. The bidder should have a total sum of turnover of **Rs. 15 Crore (Minimum)** in the last three financial years. The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account for last three years shall be attached along with the bid. **(Form no. E-1)**
2. The bidder should have local presence and should have office in Gujarat. The bidder should have service support infrastructure to provide warranty and post warranty services. The details of such service support infrastructure must be enclosed. Please attach the copies of any two of the following: Property Tax Bill of last year/Electricity Bills of last one year/Telephone Bills of last one year/VAT Registration/CST Registration/Valid Lease Agreement. **(Form no. E-2). In case bidders do not have office in Gujarat, bidder should give undertaking to open office in Gujarat within 45 Working days from the date of award of work order.**
3. **Bidder's past experience:**
 - A. The Bidder should have at least 3 years experience in setting up LAN / WAN, and should have installed minimum **05 LAN / WAN Systems with minimum 50 nodes** (here node means IP Camera or Computer or any other networking device) installed and operational in the same campus or different campus. Copies of Purchase Orders / Contract Agreement and Certificates of Successful Completion from Customer should be submitted. **(Form no. E-3).**
 - B. Bidder should have experience of executing CCTV / Surveillance System Project for at least **10 customer reference sites of IP CCTV Camera & related accessories installation, out of which 5 sites must consisting of minimum 16 IP CCTV Cameras per site.** Copies of Purchase Order(s) / Contract Agreement and Certificates of Successful Completion from Customer should be submitted. **(Form no. E-4)**
4. Bidder should attach Authorization certificate from the OEM of the equipment specified in Form, for the authenticity, authorized representation and after sales support. **(Form no. E-5)**
5. **Eligibility Criteria of OEM / CCTV Camera Product Company:**
 - A. The OEM / CCTV Camera Product Company should have **registered office and service center in India since last 3 years.** Registered offices by way of Joint ventures, Franchise, distribution partners will not be considered. Please attach the copies of any two of the following: Property Tax Bill of last year/Electricity Bills of last one year/Telephone Bills of last one year/VAT Registration/CST Registration/Valid Lease Agreement. **(Form no. E-6)**
 - B. The OEM /IP CCTV Camera Product Company/System Integrator should have installed at least a single project in India containing minimum 500 IP CCTV Cameras (of quoted camera brand) **OR** 2 projects containing minimum 250 IP CCTV Cameras (of quoted camera brand). Copies of Purchase Order(s) / Contract Agreement and Certificates of Successful Completion from Customer should be submitted. **(Form no. E-7)**

Note: All the details and the supportive documents for the above-mentioned items should be uploaded in eligibility section in the bid.

Bidders who wish to participate in this bid will have to register on <https://gil.nprocure.com>. Further bidders who wish to participate in online bids will have to procure Digital Certificate as per Information Technology Act 2000 using which they can sign their electronic bids. Bidders can procure the same from (n) code solutions – a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Govt. of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.

Section - 2

2.1 Scope of Work

The Bidder under the scope of work this RFP is required to Supply, Installation and Commissioning of Equipment's for the Implementation of Video Surveillance System at 13 nos. of various Police Station spread across the state (herein after referred to as the "SITE") on behalf of Home Department, Govt. of Gujarat, Gandhinagar, Government of Gujarat (herein after referred to as the "TENDERER") as per the functional and technical specifications, scope of work mentioned in this Bid document. The bidder shall be responsible for implementation of the work as defined in the bid document. The location of the various Police Stations is as mentioned in **Annexure II**.

Office of the Additional Director General of Police (ADGP), Technical service will be owned the project.

The complete scope of work would broadly be: design, engineering, supply, testing, installation, commissioning & maintenance of all project deliverables.

Unit cost is required to be offered for all the items as requested with 5 (Five) year warranty. All equipment including material to be installed by the Bidder shall be new and the product should not be declared end of support for 7 (seven) years and end of production for the next 2 (Two) years by the OEM's. A certificate to that effect should be furnished from OEM on its letter head confirming the same. All equipment shall conform to the codes, standards and regulations applicable and benefit from the usual manufacturer's guarantees.

2.1 Detailed Scope of Work

2.1.1 Scope of work for IP Video Surveillance / CCTV System:

1. The Scope of complete work would broadly include Design, Engineering, Supply, Testing, Installation, Commissioning, Site Acceptance Test, Training, Documentation, Warranty and Maintenance.
2. Supply, Installations, Testing & Commissioning of High performance IP based video surveillance system with complete recording and storage solution with remote monitoring facility.
3. The scope is to Supply, Installation, Testing and Commissioning of the entire system end-to-end. The Successful Bidder will be responsible to make the system entirely operational for its intended use, by addition of components specific to its make/model even if not specifically mentioned in the BoQ. Also, latest versions of software and applications shall be provided by the Successful Bidder, as applicable at the time of execution and commissioning.
4. This shall include suitable brackets for mounting the cameras, weather-proof enclosures, fixtures, cables, connectors & any other devices/ peripherals required for the proper functioning of installed cameras.
5. The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
6. **Camera installation in Police Station:**
 - i. During the installation, the camera lens position has to be adjusted to get the desired view in the specific location.
 - ii. The cameras should be configured with a suitable IP address as per the IP addressing scheme in the Police Station.
 - iii. The camera should be configured in such a way images and video feeds can be identified distinctively/easily.
 - iv. The cameras should be configured for automatic day / night display, so that without manual intervention, camera switches to night mode when the light condition is less.
7. **Control Center at Police Station:**
 - i. This shall include the supply, installation, commissioning & testing of Monitors, network switches, keyboard, video management software with adequate user licenses, along with cabinets, enclosures, fixtures, cables, connectors and any other devices, peripherals required for the proper

- functioning of various components. The Control center will be located in a separate room within the same campus or as decided by respective Police Station/office of the TENDERER.
- ii. The local video management software shall be configured to view all the cameras in the site in a single screen.
 - iii. Actual power/electricity required will be provided by TENDERER. However, extension till the last mile/actual utility will be in the scope of successful bidder. Further the Recurring Electricity charges under the project shall be paid by the TENDERER.
 - iv. The images, video feeds displayed on the VMS should display the camera ID for identification.
 - v. The Control Room shall have Server for recording and storage's for keeping the recorded video feeds & monitoring the same.
- i. The solution should be configured in such a way, so that the video feeds of all cameras would be kept for 30 days. After 30 days, the video feeds would be overwritten unless it is flagged or marked by the Police/appropriate authority for investigation or any other purpose. Bidder has to calculate the required storage capacity considering the requirement of recording for each camera at full FPS and full resolution for 30 days.
8. Home Department has implemented Police Station CCTV project in the Police Stations across the State of Gujarat. Under this project, Home Department has appointed M/s Godrej & Boyce Limited & M/s Wipro Infotech Limited as a System Integrator for implementation of CCTV systems & other related IT equipments at Police Stations across the State of Gujarat. Currently, the CCTV systems & other related IT equipments are installed in all the Police Stations & the project is under Operations & Maintenance Phase with both the appointed System Integrators. The existing system should not get disturb. Bidder has to install his hardware, software in such a way that, it should gel with existing systems.

The details of equipments installed in the Police Stations are broadly divided into following three categories:

- Police Stations with 9 Nos. CCTV Camera Setup
- Police Stations with 10 Nos. CCTV Camera Setup
- Police Stations with 15 Nos. CCTV Camera Setup

The equipments installed at Police stations are as mentioned below:

Sr. No.	Item Description
1	CCTV Camera (9 Nos. / 10 Nos. / 15 Nos.)
2	Server with Storage (8 TB / 14 TB)
3	Video Management Software (VMS)
4	Network Switches – 8 Port 10/100 PoE (2 Nos. / 3 Nos.)
5	42' or higher display unit for all cameras
6	Required LAN Cabling (CAT 6)
7	Cable Laying in MS Conduit including supply of MS conduit and all required accessories
8	UPS with 30 minute backup (1 / 2 KVA) and Batteries
9	9U Rack for Control Room equipments
10	Helpdesk Software
11	Installation, Testing and commissioning and required electrification of entire system with all required accessories
12	6 mtr. Pole with foundation for PTZ camera
13	Surge Protection Power Strips

9. All the camera feed to be installed at 13 nos. of police station should be remotely monitor at respective district location C.P\S.P office in the existing system (Central Monitoring System). The successful bidder will have to configure CCTV camera and other related accessories with existing systems for remote monitoring. The details for the existing equipments are as per **Annexure I**. All costs related to accessories, equipments, licenses, etc required for necessary integration & remote viewing has to borne by bidder.

10. The finalized rates shall remain valid for a period of 1 year from the date of issuance of work order. Based on the requirement of the Home Department, it may purchase additional quantity at the finalized unit rate as per requirement during the period of bid validity.
11. It may be noted that, the quantity of police stations may increase & it will be binding on the successful bidder to supply & install the ordered equipments at finalized rates.
12. The successful bidder has to carry out proper electrical earthing (as per IS-3043) at all the police stations where cameras are to be installed. The cost for the earthing will be borne by the bidder.
13. All the hardware and software features mentioned in the tender specifications should be available at the time of submission of tender. The TENDERER / GIL may ask for a demo of IP cameras and related software as per tender.
14. **System Training:** This shall include providing hands-on training related to system operation of the installed peripherals/equipment's to the designated/authorized representative of the respective site after the successful commissioning of the project. Appropriate training material should be provided by the bidder during the training. All the costs associated with such training have to be borne by the bidder.
15. The bidder has to provide on-site warranty for all equipment's as mentioned in RFP.
16. **Structured Cabling work (CAT 6):**
 - i. Bidder is responsible for laying of required LAN, along with its required accessories like MS Conduit, laying, reinstating the site in its original condition, casing, capping, tagging etc.) for the surveillance infrastructures asked in the RFP. Bidder has to follow industry best practices of structured cabling like proper laying, tagging, capping, casing, clamping etc.
 - ii. **Best practices of CAT 6 cable Laying:**
 - ⇒ Based on the requirement of the RFP, the bidder will have to lay the CAT6 cable, the same has to be underground only. The below mentioned best practices to be followed for Underground Cable Laying:
 - The Under-Ground Cables should be buried to a depth such that the top of the cable is One meter (0.5 Meter) below the normal ground level.
 - Excavations of trench up to a depth such that the top of the cable is 0.5 meter below the normal ground.
 - Laying and pulling of cables in trenches are through pipes/ ducts.
 - Placing of Half round RCC Pipes / Stones slabs /Pre-cast RCC Slabs /Layer of Bricks
 - All the cables should be weather proof, outdoor grade & as per BIS standard.
 - iii. The Bidder for better understanding may visit the site(s) with prior written permission from the TENDERER before submission of their bid. The bidder will have to do its own assessment/measurements for finalization of scope of work / supply before submission of their bid.
 - iv. Installation, termination and identification of wiring between station outlets and equipment room shall be considered part of the bidder work.
 - v. All balanced twisted pair cable terminations shall comply with, and be tested to TIA/EIA568-B standards for Category 6 installations.
 - vi. The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
 - vii. The Bidder shall follow and adhere to the required References & Standards during the installation and commissioning:
 - TIA / EIA
 - International Electro Technical Commission (IEC)
 - European Committee for Electro Technical Standardization (CENELEC)
 - National Fire Protection Association (NFPA)
 - viii. The Passive Components of structured cabling distribution network will be free from manufacturing defects in material and workmanship under normal and proper use.
17. **Installation of Active Components: The bidder shall be responsible for:**

- i. Supply, Installations, Testing & Commissioning of all the active components required for successfully running and maintenance of the entire system as per scope of work, functional and Technical specification of this RFP document.
- ii. Required active components will be installed at the locations identified for the surveillance.
- iii. The cameras have to be connected to the switches.
- iv. UPS installation along with necessary electrification is required to connect UPS to Mains and Workstation, Switches & Server to UPS.

2.2 Maintenance, Service and Support :-

The bidder shall further be responsible for providing required maintenance, service and necessary onsite support/OEM support for the entire contract duration from the date of successful completion of FAT (Final Acceptance Test). The bidder shall do and perform the monthly and regularly preventive maintenance as part of the maintenance activity. It shall be the bidder's responsibility to replace any defective parts/equipment's without any additional cost to the TENDERER. The defective part so replaced shall be the property of the bidder. The bidder shall keep enough spares at the SITE location/its own location during warranty and maintenance period and the cost for the spare-parts are to be borne by the bidder.

The bidder is expected to transfer the knowledge to the TENDERER or its nominated Technical Team.

2.2.1 Preventive Maintenance: The bidder shall also be responsible for performing/carrying out preventive maintenance activity at least once in a quarter which includes cleaning, dusting and upkeep of interior and exterior, realignment of the deployed equipment's, configuration backup and software up gradation/update of all hardware.

The Bidder is required to submit preventive maintenance schedule for all equipment to TENDERER from time to time. After performing preventive maintenance activities, successful bidder is required to submit the detailed report of the same. All such activities should be done preferably during non-working hours or on non-working days/holidays.

Locations broadly included in the project:

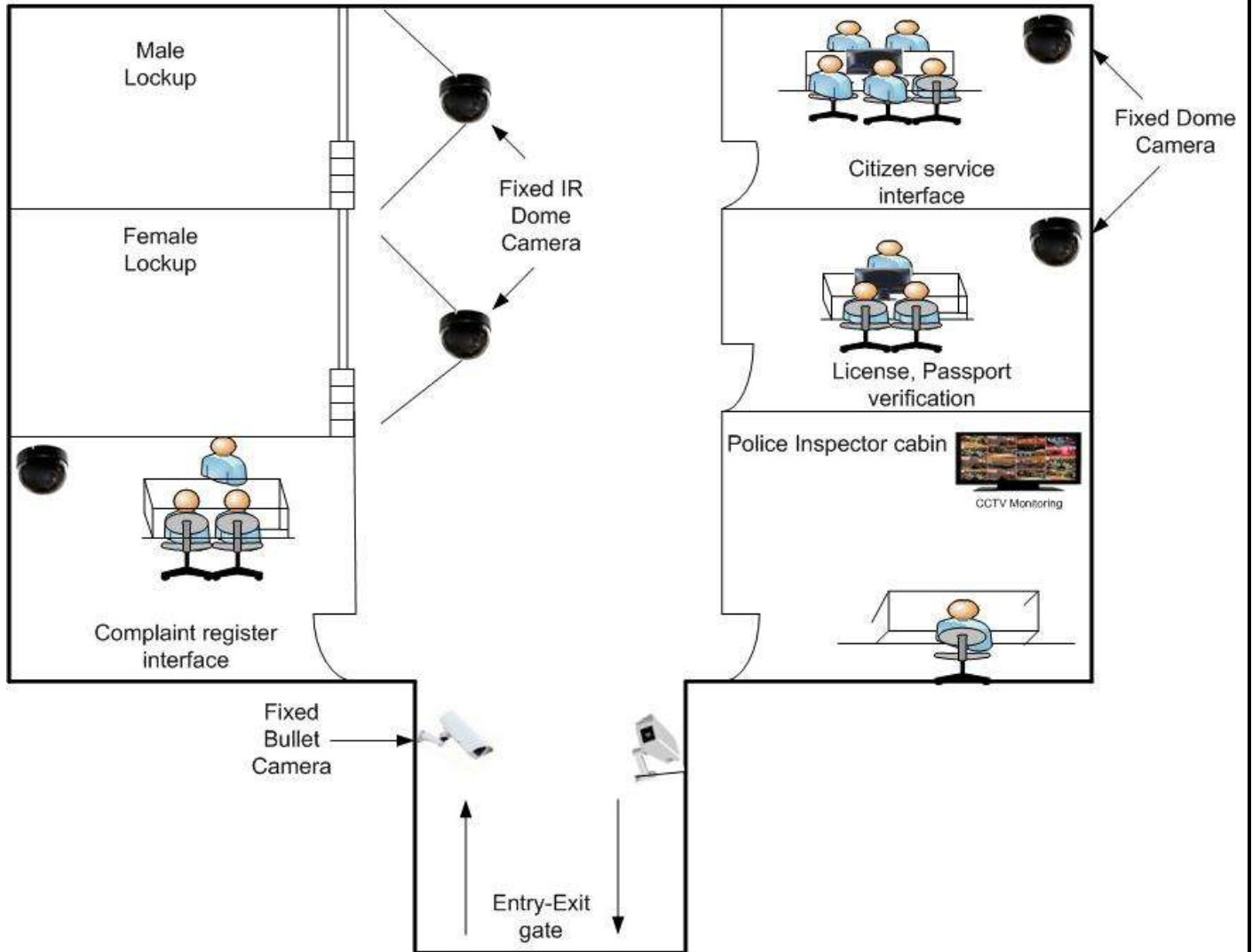
Sr. No	Location	Camera Type
1	Male Lockup	2 MP fixed Camera with Audio and IR
2	Female Lockup	2 MP fixed Camera with Audio and IR
3	Complaint register interface	2 MP fixed Camera with Audio
4	Citizen service interface, clearance, license, passport verification	2 MP fixed Camera with Audio
5	Main Entry	2 MP fixed Camera with Audio and IR
6	Main Exit	2 MP fixed Camera with Audio and IR

Note: The above mentioned locations are tentative and may vary as per the Police Station's design

Tentative Layout for Camera Positions:

The below mentioned drawing is tentative and to conceptualize project requirement, the camera locations and quantity may vary depending on the size and design of the Police Stations.

Police Station CCTV Architecture



Section - 3

Instructions to Bidders

ARTICLE - 1: GENERAL INSTRUCTION TO BIDDERS

All information supplied by Bidders may be treated as contractually binding on the Bidders on successful award of the assignment by the TENDERER on the basis of this RFP. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the TENDERER. Any notification of preferred bidder status by the TENDERER shall not give rise to any enforceable rights by the Bidder. TENDERER may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of GIL. This RFP supersedes and replaces any previous public documentation, communications, and Bidders should place no reliance on such communications. The TENDERER/ GIL may terminate the RFP process at any time and without assigning any reason. GIL make no commitments, express or implied, that this process will result in a business transaction with anyone.

ARTICLE - 2: COST OF BIDDING

2.1 The Bidder shall bear all costs associated with the preparation and submission of the Bid and Gujarat Informatics Ltd (GIL) \ THE OFFICE will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.

2.2 Bidder is requested to pay **Rs. 17,700/-** as a bid processing fee (Non-refundable) & Earnest Money Deposit (E.M.D.) of **Rs. 2,50,000/-** (Rupees two lakh fifty thousand only) (Refundable). In case of non-receipt of bid processing fees & EMD the bid will be rejected by GIL.

ARTICLE - 3: BIDDING DOCUMENTS

The Bidder(s) can download the bid document and further amendment if any freely available on <https://www.gil.gujarat.gov.in> and <https://www.gil.nprocure.com> and submit the bid on <https://www.gil.nprocure.com> on or before due date & time of the tender. Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submits a Bid not substantially responsive to the bidding documents in every respect may result in the rejection of the Bid. Under no circumstances physical bid will be accepted.

ARTICLE - 4: CLARIFICATION ON BIDDING DOCUMENTS & PRE-BID MEETING:

4.1 Bidders can seek written clarifications up to **5 days before pre bid meeting** to DGM(Tech.), Gujarat Informatics Ltd., 2nd Floor, Block No. 2, Karmayogi Bhavan Gandhinagar 382 010 and pre-bid meeting will be held as per the schedule. GIL / TENDERER will try to clarify & issue amendments if any to all the bidders in the pre-bid meeting. No further clarification what so ever will be entertained after the bid submission date.

ARTICLE - 5: AMENDMENT OF BIDDING DOCUMENTS

5.1 At any time prior to the deadline for submission of bids, The TENDERER / GIL, for any reason, whether at its own initiative or in response to the clarifications requested by prospective bidders may modify the bidding documents by amendment.

5.2 All prospective bidders are requested to browse our website & any amendments / corrigendum / modification will be notified on our website and such modification will be binding on them. Bidders are also requested to browse the website of GIL/GoG i.e. www.gil.gujarat.gov.in & www.gil.nprocure.com for further amendments if any.

5.3 In order to allow prospective bidders a reasonable time to take the amendment into account in preparing their bids, GIL / TENDERER, at its discretion, may extend the deadline for the submission of bids.

ARTICLE - 6: LANGUAGE OF BID

The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and GIL / THE OFFICE shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in English. For purposes of interpretation of the bid, the translation shall govern.

ARTICLE - 7: SECTIONS COMPRISING THE BIDS

7.1 The quotation should be scan-able and distinct without any option stated in.

7.2 The bid submitted shall have the following documents:

a) EMD & Bid Processing Fees Section:

The EMD (refundable) & bid processing fee (non-refundable) to be furnished to GIL office on or before date & hours of submission of bid in a sealed cover super scribed with the bid document number. The details are required to be filled in this section.

b) Eligibility & Technical Section:

- i. Clause by clause Compliance statement for Bid document including annexure to be uploaded.
- ii. All deviations and / or non-compliance clauses shall be listed separately & uploaded.
- iii. Letter of Authority for signing the bid.
- iv. All Annexure/Table, duly filled-in with necessary proofs, as required and stated in the bid document.
- v. Make & Model of quoted item in the bid with brochures\ website literature.
- vi. All Eligibility forms & technical specification & dealership\distributorship authorized certificate & supporting document related Eligibility & Technical Stage.

c) Price Bid Section in the prescribed format only.

ARTICLE - 8: BID FORMS

8.1 Wherever a specific form is prescribed in the Bid document, the Bidder shall use the form to provide relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be uploaded to convey the said information. Failing to upload the information in the prescribed format, the bid is liable for rejection.

8.2 For all other cases, the Bidder shall design a form to hold the required information.

8.3 GIL / THE OFFICE shall not be bound by any printed conditions or provisions in the Bidder's Bid Forms.

ARTICLE - 9: FRAUDULENT & CORRUPT PRACTICE

9.1 Fraudulent practice means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive the TENDERER/GIL of the benefits of free and open competition.

9.2 "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of Contract execution.

9.3 GIL / THE OFFICE will reject a proposal for award and may forfeit the E.M.D. and/or Performance Guarantee if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, contract(s).

ARTICLE - 10: LACK OF INFORMATION TO BIDDER

The Bidder shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Bidder of his responsibility to fulfill his obligation under the Contract.

ARTICLE - 11: CONTRACT OBLIGATIONS

If after the award of the contract the Bidder does not sign the Agreement or fails to furnish the Performance Bank guarantee within fifteen (15) working days from the date of LoI/Work Order, along with the inception report and working schedule as per the tender requirements & if the operation are not started within fifteen (15) working days after submission of P.B.G. as mentioned, GIL / THE OFFICE reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract.

ARTICLE - 12: BID PRICE

- 12.1 The priced bid should indicate the prices in the format/price schedule only.
- 12.2 Offered price should be inclusive of Packing\Forwarding, Insurance, FOR destination (anywhere in the Gujarat state). GST needs to be shown separately.
- 12.3 Discount if offered, should not be mentioned separately. It should be included in offered price.
- 12.4 Any effort by a bidder or bidder's agent\consultant or representative howsoever described to influence the GIL\ THE OFFICE in any way concerning scrutiny\consideration\evaluation\comparison of the bid or decision concerning award of contract shall entail rejection of the bid.
- 12.5 Unit rates should be quoted separately for each item. Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document.

ARTICLE - 13: BID CURRENCY

The prices should be quoted in Indian Rupees. Payment for the supply of equipment's as specified in the agreement shall be made in Indian Rupees only.

ARTICLE - 14: EARNEST MONEY DEPOSIT (EMD)

- 14.1 The Bidder shall furnish, as part of the Bid, EMD of **Rs. 2,50,000/-** shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee (which should be valid up to **15 months** from the date of bid submission) of any Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf.) issued by Finance Department or further instruction issued by Finance department time to time; in the name of "Gujarat Informatics Ltd." payable at Gandhinagar (as per prescribed format given at Annexure A) in a separate envelope. The un-priced bid (Technical-bid) will be opened subject to the confirmation of valid EMD and bid processing fees.
- 14.2 Unsuccessful bidder's E.M.D. will be returned as promptly as possible within 30 days after the expiration of the period of bid validity OR upon the successful Bidder signing the Contract, and furnishing the Performance Bank Guarantee @ 10% of the total order value as prescribed by GIL, whichever is earlier.
- 14.3 The successful Bidder's EMD will be discharged upon the Bidder signing the Contract/Agreement, and furnishing the Performance Bank Guarantee.
- 14.4 EMD amount is interest free and will be refundable to the unsuccessful bidders without any accrued interest on it.
- 14.5 The EMD may be forfeited, on account of one or more of the following reasons:
 - a) The Bidder withdraws their Bid during the period of Bid validity.

- b) Bidder does not respond to requests for clarification of their Bid.
- c) Bidder fails to co-operate in the Bid evaluation process.
- d) The bidder is found to be involved in fraudulent and corrupt practices, and
- e) In case of a successful Bidder, the said Bidder fails:
 - (i) To sign the Agreement in time, (ii) To furnish Performance Bank Guarantee

ARTICLE - 15: PERIOD OF VALIDITY OF BIDS

- 15.1 Bids shall remain valid for **1 years** days after the date of issuance of work order by Home Department. A Bid valid for a shorter period shall be rejected as non-responsive.
- 15.2 In exceptional circumstances, the TENDERER/GIL may solicit Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The EMD shall also be suitably extended. A Bidder granting the request is not required nor permitted to modify the Bid.

ARTICLE - 16: DURATION OF THE CONTRACT

The duration of the Contract will be of **5 year**. The duration spent for installation of Hardware and Software will not be a part of contract period. Hence the actual contract period starts after the successful installation, commissioning and FAT of hardware and software as per the requirement of the RFP.

ARTICLE - 17: BID DUE DATE

- 17.1 Bid must be uploaded by vendor not later than the due date specified in the RFP.
- 17.2 The TENDERER/GIL, as its discretion, may extend the bid due date, in which case all rights and obligations of the TENDERER/GIL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

ARTICLE - 18: LATE BID

No bidder may be able to upload or submit the bid after the bid due date/time.

ARTICLE - 19: MODIFICATION AND WITHDRAWAL OF BID

- 19.1 The Bidder may modify or withdraw its Bid before the due date of bid submission.
- 19.2 No Bid may be modified subsequent to the deadline for submission of bids.
- 19.3 No Bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of Bid validity specified by the Bidder on the bid letter form. Withdrawal of a Bid during this interval may result in the bidder's forfeiture of its EMD.

ARTICLE - 20: OPENING OF BIDS BY GIL

- 20.1 Bids will be opened in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register evidencing their attendance.
- 20.2 The Bidder's names, Bid modifications or withdrawals, discounts and the presence or absence of relevant EMD and such other details as the GIL / THE OFFICE officer at his/her discretion, may consider appropriate, will be announced at the opening.
- 20.3 Immediately after the closing time, the TENDERER/ GIL contact person shall open the Un-priced Bids and list them for further evaluation.

ARTICLE - 21: CONTACTING GIL / THE OFFICE

- 21.1 Bidder shall not approach GIL / THE OFFICE officers outside of office hours and / or outside GIL / THE OFFICE premises, from the time of the Bid opening to the time the Contract is awarded.
- 21.2 Any effort by a bidder to influence GIL / THE OFFICE officers in the decisions on Bid evaluation, bid comparison or contract award may result in rejection of the Bidder's offer. If the Bidder wishes to bring additional information to the notice of the GOG, it should do so in writing.

ARTICLE - 22: REJECTION OF BIDS

The TENDERER/GIL reserves the right to reject any Bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for such decision. Conditional bid will not be accepted.

ARTICLE - 23: PRELIMINARY EXAMINATION OF BID

- 23.1 Un-priced Bid documentation shall be evaluated in two steps.
- 23.2 Stage-1: The documentation furnished by the Bidder will be examined based on the following criteria:
 - (i) Compliance to bid document.
 - (ii) Evaluation of Eligibility Criteria (As per the eligibility criteria defined in this bid document) & compliance to the Technical Specifications of the Product / Solution Offered. (The bidder shall provide details required/asked along with the bid)
- 23.3 **Priced Bid:** Priced Bids of only those bidder(s) will be opened whose bid(s) are technically qualified as per the above mentioned Stage-1 and 2. The TENDERER/GIL may at its discretion discuss with qualified Bidder(s) at this stage to clarify contents of Price Bid.
- 23.4 **Choice of Firm:** Final Choice of Firm to execute this project shall be made on the basis of conformity to eligibility & technical bid. The financial bid of the technically qualified bidders will be opened and financially L1 bidder will be decided from the sum total of prices for all line items without tax and then called for further negotiations if required.

ARTICLE - 24: AWARD OF CONTRACT

- 24.1 Award Criteria: The Criteria for selection will be the lowest effective cost to THE OFFICE for the technically qualified bids for total cost. (Excluding any taxes).
- 24.2 THE OFFICE's right to vary requirements at time of award: GIL/ THE OFFICE reserves the right at the time of award to increase or decrease quantity for the requirements originally specified in the document without any change in Bid rate or other terms and conditions.
- 24.3 In case, if lowest bidder does not accept the award of contract or found to be involved in corrupt and/or fraudulent practices, the next lowest bidder will be awarded the contract. In such scenario, the lowest bidder has to born the difference between lowest prices and next lowest prices.
- 24.4 The tendered quantities are estimated based on the survey carried out as well as receipt of the requirement from the TENDERER. The quantities may vary at the time of finalization, depending upon the change in the requirements/grants available with the purchaser(s), which shall be binding to the bidder.

ARTICLE - 25: NOTIFICATION OF AWARD & SIGNING OF CONTRACT

- 25.1 Prior to expiration of the period of Bid validity, the TENDERER will notify the successful Bidder and issue Lol/Work Order.
- 25.2 The Successful bidder has to submit Performance Bank Guarantee @ 10% of total order value within 15 days from the date of issue of Lol/ Work Order as per article 33 of this bid from any Nationalized Bank including the public sector bank or Private Sector Banks authorized by RBI or Commercial Bank or Regional Rural Banks of Gujarat or Co-Operative Bank of Gujarat (operating in India having branch at Ahmedabad / Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf.) issued by Finance Department or further instruction issued by Finance department time to time. (The draft of Performance Bank Guarantee is attached herewith)
- 25.3 Successful Bidder will have to sign the contract upon receiving the Work Order with the purchaser(s) within 15 working days from the date of Work Order. (The draft is attached herewith).

ARTICLE - 26: FORCE MAJEURE

26.1 Force Majeure shall mean any event or circumstances or combination of events or circumstances that materially and adversely affects, prevents or delays any Party in performance of its obligation in accordance with the terms of the Agreement, but only if and to the extent that such events and circumstances are not within the affected party's reasonable control, directly or indirectly, and effects of which could have prevented through Good Industry Practice or, in the case if construction activities through reasonable skill and care, including through the expenditure of reasonable sums of money. Any events or circumstances meeting the description of the Force Majeure which have same effect upon the performance of any contractor shall constitute Force Majeure with respect to the Vendor. The Parties shall ensure compliance of the terms of the Agreement unless affected by the Force Majeure Events. The Vendor shall not be liable for forfeiture of its implementation / Performance guarantee, levy of Penalties, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Agreement is the result of Force Majeure.

26.2 Force Majeure Events

The Force Majeure circumstances and events shall include the following events to the extent that such events or their consequences (it being understood that if a causing event is within the reasonable control of the affected party, the direct consequences shall also be deemed to be within such party's reasonable control) satisfy the definition as stated above.

Without limitation to the generality of the foregoing, Force Majeure Event shall include following events and circumstances and their effects to the extent that they, or their effects, satisfy the above requirements:

26.3 Natural events ("Natural Events") to the extent they satisfy the foregoing requirements including:

- (a) Any material effect on the natural elements, including lightning, fire, earthquake, cyclone, flood, storm, tornado, or typhoon;
- (b) Explosion or chemical contamination (other than resulting from an act of war);
- (c) Epidemic such as plague;
- (d) Any event or circumstance of a nature analogous to any of the foregoing.

26.4 Other Events ("Political Events") to the extent that they satisfy the foregoing requirements including:

Political Events which occur inside or Outside the State of Gujarat or involve directly the State Government and the Central Government ("Direct Political Event"), including:

- (i) Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, civil commotion, act of terrorism or sabotage;
- (ii) Strikes, work to rules, go-slows which are either widespread, nation-wide, or state-wide and are of political nature;
- (iii) Any event or circumstance of a nature analogous to any of the foregoing.

26.5 FORCE MAJEURE EXCLUSIONS

Force Majeure shall not include the following event(s) and/or circumstances, except to the extent that they are consequences of an event of Force Majeure:

- (a) Unavailability, late delivery
- (b) Delay in the performance of any contractor, sub-contractors or their agents;

26.6 PROCEDURE FOR CALLING FORCE MAJEURE

The Affected Party shall notify to the other Party in writing of the occurrence of the Force Majeure as soon as reasonably practicable, and in any event within 5 (five) days after the Affected Party came to know or ought reasonably to have known, of its occurrence and that the Force Majeure would be likely to have a material impact on the performance of its obligations under the Agreement.

ARTICLE – 27: CONTRACT OBLIGATIONS

Once the contract agreement is confirmed and signed, the terms and conditions contained therein shall take precedence over the Bidder's bid and all previous correspondence.

ARTICLE – 28: AMENDMENT TO THE AGREEMENT

Amendments to the Agreement may be made by mutual agreement by both the Parties. No variation in or modification in the terms of the Agreement shall be made except by written amendment signed by both the parties. All alterations and changes in the Agreement will take into account prevailing rules, regulations and laws applicable in the State of Gujarat.

ARTICLE – 29: USE OF AGREEMENT DOCUMENTS AND INFORMATION

The successful bidder shall not without prior written consent from GoG disclose the Agreement or any provision thereof or any specification, plans, drawings, pattern, samples or information furnished by or on behalf of the TENDERER in connection therewith to any person other than the person employed by the successful bidder in the performance of the Agreement. Disclosure to any such employee shall be made in confidence and shall extend only as far as may be necessary for such performance.

The successful bidder shall not without prior written consent of the TENDERER make use of any document or information made available for the project except for purposes of performing the Agreement.

All project related documents issued by the TENDERER other than the Agreement itself shall remain the property of the TENDERER and Originals and all copies shall be returned to the TENDERER on completion of the successful bidder performance under the Agreement, if so required by the TENDERER.

ARTICLE – 30: LIMITATION OF LIABILITY

Notwithstanding anything contrary contained herein, the aggregate total liability of contractor or buyer under the Agreement or otherwise shall be limited to 100% of Agreement / Order price.

ARTICLE – 31: RESOLUTION OF DISPUTES

- (i) If any dispute arises between the Parties hereto during the subsistence or thereafter, in connection with the validity, interpretation, implementation or alleged material breach of any provision of the Agreement or regarding a question, including the questions as to whether the termination of the Contract Agreement by one Party hereto has been legitimate, both Parties hereto shall endeavor to settle such dispute amicably.
- (ii) The attempt to bring about an amicable settlement is considered to have failed as soon as one of the Parties hereto, after reasonable attempts [which attempt shall continue for not less than 30 (thirty) days], give 15 days' notice thereof to the other Party in writing.
- (iii) In the case of such failure the dispute shall be referred to three arbitrators, two of whom will be appointed by each Party and the third appointed by the two arbitrators. The place of the arbitration shall be Ahmedabad, Gujarat.
- (iv) The Arbitration proceeding shall be governed by the Arbitration and Conciliation Act of 1996 as amended. The proceedings of arbitration shall be in English language. The arbitrator's award shall be substantiated in writing. The arbitration tribunal shall also decide on the costs of the arbitration procedure.

- (v) The Parties hereto shall submit to the arbitrator's award and the award shall be enforceable in any competent court of law.

ARTICLE – 32: TAXES & DUTIES

The successful bidder is liable for all taxes and duties etc. as may be applicable from time to time.

ARTICLE – 33: BOOKS & RECORDS

The successful bidder shall maintain adequate books and records in connection with Contract and shall make them available for inspection and audit by the TENDERER during the terms of Contract until expiry of the performance guarantee. One hard copy and soft copy should be submitted to the Office

ARTICLE – 34: WARRANTY TERMS

The successful bidder shall give on-site warranty and support for all equipment's mentioned in RFP for 5 year from the date of FAT. In the event that the materials supplied under the contract do not meet the specifications and/or are not in accordance with the drawings data in terms of this order, and rectification is required at site, The TENDERER shall notify the successful bidder giving details of difference. The successful bidder shall attend the site within seven (7) days of receipt of such notice to meet and agree with representatives of the TENDERER, the action required to correct the deficiency. Should the successful bidder fail to attend the site within the time specified above, The TENDERER shall be at liberty to rectify the work/materials and the successful bidder shall reimburse the TENDERER all costs and expenses incurred in connection with such trouble or defect.

Warranty should also cover the equipment damage or burn due to power failure, high voltage, surge and earthing.

ARTICLE – 35: PERFORMANCE GUARANTEE

- 35.1 The successful bidder shall furnish Performance Guarantee equals to 10% of the contract value valid for the duration of 180 days beyond the expiry of the contract.
- 35.2 The performance guarantee will be in the form of bank guarantee for the amount equal to 10 % of the contract value towards faithful performance of the contract obligation, and performance of the equipment's during Warrantee period. In case of material breach of the contract terms and conditions, the TENDERER shall invoke the PBG.
- 35.3 The Performance Guarantee shall be denominated in Indian Rupees and shall be in the form of an unconditional Bank Guarantee issued by any Nationalized Bank including the public sector bank or Private Sector Banks authorized by RBI or Commercial Bank or Regional Rural Banks of Gujarat or Co-Operative Bank of Gujarat (operating in India having branch at Ahmedabad / Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf.) issued by Finance Department or further instruction issued by Finance department time to time. in the format provided by the TENDERER to be submitted within 15 working days from the date of receipt of award.
- 35.4 The Performance Guarantee shall be discharged by the TENDERER and returned to the Vendor within 30 days from the date of expiry of the Performance Bank Guarantee.

ARTICLE- 36 DELIVERIES AND INSTALLATION / IMPLEMENTATION:

- 36.1 The work as defined under the Scope of work has to be completed in accordance to the Project Implementation timeline as specified under Article 38. The bidder has to take the necessary approval of the TENDERER or its user departments for Schematics Diagram (Layout) within 15 working days for cabling & laying work of Video Surveillance System.

- 36.2 If in any case the quoted Item is not available in the market at the time of delivery, the bidder will have to supply Higher Version/replacement of that Item in the quoted cost in the same time duration with prior approval of GIL. No “End of Life” product should be quoted to minimize such instances.

ARTICLE –37: PAYMENTS TERMS

- 37.1 No advance Payment will be made.
37.2 50 % of the amount shall be paid within 30 days after Supply, inspection of the items as per work order and successful Installation of goods at all locations of the cluster for the each system.
37.3 30 % of the amount shall be paid within 30 days upon successfully clearing the FAT
37.4 20 % of Total Contract Amount will be retained and shall become payable after six months from the date of awarding the FAT on the basis of successful clearance from the competent authority.

Note: During the implementation phase the successful bidder will be allowed to raise only one invoice per month.

ARTICLE – 38: SERVICE TERMS

- 38.1 The entire scope of the work depends on the technical skill and experience in management of the same level or kind of infrastructure.
38.2 It is mandatory for successful bidder to deploy qualified professional to install, commission & maintain the equipments, as defined under scope of work.
38.3 The successful bidder has to submit regular schedule of man power availability & get it approved by the TENDERER.
38.4 The successful bidder is free to deploy or to develop applications to facilitate the operation. The TENDERER will welcome the deployment such application in respect to improve Quality of Services.
38.5 For extending better services to the user, the successful bidder will be allowed to deploy & use own tested and proven solution, with prior permission from the TENDERER.
38.6 The successful bidder need to manage & maintain various records related to the services extended to the user.
38.7 The network is being operated & maintained by various agencies. In such circumstances the successful bidder may need to coordinate and approach various agencies, if required.
38.8 The successful bidder is responsible to maintain documentation on the progress of the work and will have to update the same on regular basis. The successful bidder will have to submit the progress reports regularly, to the TENDERER.
38.9 The understanding of the comprehensive maintenance under warranty period is as follows.
a) In case of failure of equipment (s), the successful bidder needs to repair or replace the faulty part/component/device to restore the services at the earliest.
b) The cost of the repairing or replacement of faulty part/component/device has to be entirely born by the successful bidder.
c) All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the Vendor as part of comprehensive maintenance.
d) The successful bidder also needs to make alternate arrangement in case of major failure happens in the network, due to which services may be effecting for longer period.
e) After repairing or replacement of the part/component/device, the successful bidder needs to put the same into operation.

ARTICLE – 39: SLA and PENALTY CLAUSE

a) Penalty for delay:

S/n	Activity	Timeline	Penalty
1	Delay in Delivery/ Supply of Hardware	As per Article 40 of this RFP Document	0.5% of Contract value of delayed item per week or part thereof for delay in delivery
2	Delay in Installation / Implementation		0.75% of Contract value of delayed item per week or part thereof for delay in Implementation (Delay Beyond 8 weeks, TENDERER may terminate the contract and Forfeit the PBG)

Note: Maximum Penalty cap for penalty for delay is 10% of contract value for the ordered item.

If TENDERER fails to provide space and related clearances to carry out the job as per the agreement terms, as a result of which the installation of the equipment is delayed and the selected agency is not able to adhere to the schedule for completing the Acceptance Tests. Delay solely on account on above will not be accounted while ascertaining actual delay and penalties thereof.

b) Operational Penalties:

The bidder shall be responsible for maintaining the desired performance and availability of the Network devices supplied under the scope of work of this RFP. The bidder should ensure the prompt service support during Contract period. If complain is made before 4 pm of the working day, the same should be attended on the same day.

Resolution Time: - Defined as time taken to resolve a problem. The resolution time will be considered with respect to clock hours.

If the successful bidder fails to attend the uptime and complaint resolution as specified below, the operational penalty will be imposed as specified above which will be recovered from quarterly payment or from PBG.

Exceptions:

- Any Failure, which is agreed due to uncontrollable parameters, like Raw Power etc.
- Any failure due to roll out of Approved change / alteration in the system
- Downtime planned for prescheduled changes / Maintenance activities
- Any failure that is due to end user operational errors, non-standard products, unavoidable natural / unnatural calamities, accidents etc.
- All third-party damage cases, problems attributed to power outage.
- Force Majeure conditions.
- Existing Concealed cabling from Switch to end user

Note:

- In case, there is delay attributable to granting access to the equipment to be restored on the part of TENDERER or on part of end user, such delays shall be reduced from the time taken for call completion after due consideration by the TENDERER/GIL.

The Successful Bidder shall be responsible for repair/ replace all faulty material within the shortest possible time thus ensuring minimum downtime.

- The Successful Bidder shall be responsible for maintaining the desired performance and availability of the system/services. Successful Bidder should ensure the prompt service support for the entire project duration. If any complain is made or auto alarm/instances is generated by the system for non-availability of the items., then it has to resolved within 24 hours from the time of complaint raised/auto alarm.

- If Successful Bidder fails to resolve the issue as specified above, the following penalty will be imposed on each delayed day, which will be recovered against the quarterly payment invoice submitted by the successful bidder:

Sr. No.	Security level	Items/equipments	Response time	Resolution time	Per day penalty per event if not resolved within stipulated time
1	Level 0	Cameras, live video feed and recording	Within 4 hrs	24 Hrs	1000 Rs. Per day per equipment
2	Level 1	UPS	Within 8 hrs	48 Hrs	500 Rs. Per day per equipment

ARTICLE – 40 PROJECT IMPLEMENTATIONS

40.1 Project Implementation Timelines:

S/N	Deliverables	Timeline
1	Work order	T
2	Delivery of the ordered items as per the work order at Police Station	T+ 30 days
3	Installation and Commissioning of hardware and software	T+ 60 days
4	Testing, FAT and Go-Live	T+ 90 days

Note: T = Work order

Days = Calendar days

The bidder has to take the necessary approval of the TENDERER or its authorized representative for Schematics Diagram (Layout) before starting the implementation of the project.

- 40.2 The successful bidder will implement the project strictly as per the plan approved by the TENDERER. The successful bidder shall carry out cabling work at such locations as may be decided by the TENDERER within a specified period as specified in Instruction letter/LOI/Order and complete their provisional Acceptance Test to the satisfaction of the TENDERER and its user Departments within 10 days from the date specified. This period may be extended depending upon the fulfillment of Conditions Precedent.
- 40.3 Acceptance of work will be undertaken by the TENDERER/User Departments. All Invoices, Vouchers, Bills for supplied goods and services by the successful bidder under the scope of the work will be verified measured and accepted by the TENDERER or its designated agency for release of payment.
- 40.4 As part of implementation the successful bidder shall provide details of equipment that will be incorporated in the proposed system, material and manpower as required. The location for storing spare parts and quantity there on should also be clearly indicated.
- 40.5 The successful bidder shall provide the necessary technical support, Standard Operating Procedure (SOP) and other information to the TENDERER and its user organizations in implementing the proposed system applications. The TENDERER at any time during the currency of the Agreement should have access to the proposed sites.
- 40.6 The successful bidder shall provide training to the TENDERER and its user Department's personnel at no additional cost to the TENDERER. The training schedule, content and modalities will be defined jointly by both the parties.
- 40.7 The successful bidder shall arrange to obtain all statutory permission with no cost to the TENDERER. The successful bidder may have to work during Holidays and Sundays, according to the urgency of work. The Vendor will obtain such permission on his own in consultation with the TENDERER and its User Departments. It will be the responsibility of the successful bidder to co-ordinate with the TENDERER and its User Departments as necessary to execute the required job.
- 40.8 The successful bidder shall not disturb or damage the existing network of communication. If in case any damage to the network is done, the same shall be corrected with no extra cost. The successful bidder

shall also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.

- 40.9 In case of the material/solution supplied and installed is rejected owing to its non-conformity to the specification or due to the poor quality of workmanship, the same shall be replaced promptly by the successful bidder.
- 40.10 The successful bidder shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from the TENDERER.
- 40.11 Any damage caused to the property of the TENDERER while executing the job shall be solely successful bidder's responsibility. In case any damage to the property is caused, the same will be recovered from the successful bidder. No any extra cost shall be paid to the successful bidder for such reasons.
- 40.12 The successful bidder shall have to furnish the documentation of the work undertaken in consultation with the TENDERER. 3 sets of such documentation should be provided before the issue of completion certificate.
- 40.13 It is a turnkey project. The successful bidder shall be fully responsible for implementing the Project in totality and should include the items and their prices, if not included in Schedule of Requirement to complete the project on turnkey basis. Any claim whatsoever in this regard will not be entertained later on.
- 40.14 In the event of the delay in delivery of contracted services or services is not satisfactory the purchaser may procure goods from else ware as prescribed in bid and the successful bidder shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the Vendor.
- 40.15 The TENDERER or its designated agency reserves the right to visit any working site of the Vendor with prior intimation. The concern Vendor has to make necessary arrangement for the same.
- 40.16 The successful bidder shall be responsible and take required insurance for all of their representations working on the site at their own cost. The TENDERER will not be responsible for any loss or damage to any of the representatives of the successful bidder during the said contract.
- 40.17 All work shall be performed and executed by the successful bidder in strict conformity with conditions laid down in the RFP and any relative instruction issued to the successful bidder by the TENDERER from time to time.
- 40.18 In the event of the delay in delivery of contracted goods and services or the services provided are not satisfactory, the TENDERER may procure the goods/services from elsewhere as prescribed in bid and the successful bidder shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the Vendor.
- 40.19 The TENDERER shall associate few engineers / technicians during installation and commissioning work. The successful bidder shall ensure proper participation of the nominated personnel(s) from the TENDERER's office or its user department's and train them on the services provided. Also, the successful bidder shall organize the systematic training of selected personnel from the TENDERER's office on the operation / management of equipments.

ARTICLE – 41: ACCEPTANCE TEST

Acceptance Test will be conducted in as follows:

- 41.1 The TENDERER or its nominated agency reserves the right to inspect the equipment's and JFC, Cat-5/Cat-6 cables etc. The cost of all such tests shall be borne by the successful bidder. If Any inspected goods fail for confirm to specification after installation, the TENDERER may reject them and the successful bidder shall have to replace the rejected goods. In case of inspection waiver, the same shall be obtained before the dispatch of goods. Inspection of rest of material shall be done at site. Sample approval should be obtained before installation for such material.

- 41.2 The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 41.3 The date on which Acceptance Certificate is issued shall be deemed to be the date of Go-Live of the System.
- 41.4 Any delay by the successful bidder in the Acceptance Testing shall render the Vendor liable to the imposition of appropriate Penalties.

ARTICLE – 42: INSTALLATION REQUIREMENTS

- 42.1 The Vendor needs to pull necessary cables up to required place, using approved MS conduit/Channel/RF/CAT5 or CAT6 Cable.
- 42.2 The necessary Civil & Electrical work has to be carried out by the Vendor if required at customer site like requirement of brackets, installation of camera on wall etc. THE OFFICE will not reimburse any cost towards the same. The Vendor need to take necessary permission if require from concern authority.

ARTICLE – 43: SOFTWARE LICENCES (IF APPLICABLE)

The Vendor shall be responsible for providing Software (System Software, Application Software, Device Drivers, IOS, etc) required, if any, during warranty period to the TENDERER. All license software must be in the name of the TENDERER.

ARTICLE – 44: INSTALLATION OF ADDITIONAL HARDWARE (IF APPLICABLE)

During the currency of the Agreement, for any additional requirement of equipment including interface equipment, the specifications will be provided by the Vendor. THE OFFICE /The Third-Party Agency will verify suitability of the specifications submitted by Vendor and recommend to THE OFFICE for acceptance. The Vendor will be obligated to undertake integration, operation and maintenance for all additional equipments if required.

ARTICLE – 45: THIRD PARTY AGENCY

The TENDERER may appoint Third Party Agency, who would monitor the project during implementation, commissioning and operation. The Third-Party Agency will also conduct the Partial and Final Acceptance Test as per the technical requirement of the Agreement and will issue the Certificate of Completion of each proposed site. Third Party Agency will verify the services provided by the Vendor under the Agreement. The successful bidder will co-operate with such Third-Party Agency.

ARTICLE – 46: SUPPORT FROM EXTERNAL AGENCY (IF APPLICABLE)

In case, if the successful bidder wishes to have support from any external agency, it's very necessary to inform the TENDERER in written prior to allow them to work on the TENDERER's infrastructure. The information should contain all respective information about the company from whom support has been extended, the person/group of people and the segment in which services has been taken. On completion of the task, another report should be submitted by mentioning action taken by this person/group of people from external agency, with duration. The successful bidder is solely responsible for the action taken by such agency on their behalf. No Data/ Information should be sent out of the premise without obtaining prior written confirmation from the TENDERER.

Section - 4

Make & Model List

Sr. No.	Item	Make & Model	Supporting Document uploaded? (Yes/No)
1	Indoor Fixed Dome Cameras with Audio		
2	Outdoor Bullet Camera with Audio		
3	Outdoor PTZ Camera		
4	Server With 8 TB Storage		
5	Server With 16 TB Storage		
6	Video Management Software with 9 camera licenses		
7	Video Management Software with 15 camera licenses		
8	L2 Network Switch 8 Port PoE		
9	42" or display unit		
10	UPS 1 KVA with 30 minutes Backup		
11	UPS 2 KVA with 30 minutes Backup		
12	9U Rack		
13	Surge Protection Power Strips		
14	CAT 6 cable (in meter)		
15	Helpdesk software		

Note: The Bidder may quote only one option (i.e. one products can be quoted) against each item. Bidders are required to mention Make and Model of the product (Do not write "OEM" against items). Bidders are expected to give make and model of the product).

Ensure that all equipment including material to be installed by the Bidder shall be new and the product should not be de-supported or declared end of life during the next 7 years.

Section – 5: Technical Specification

4.1 Indoor Fixed Dome Cameras with Audio and IR

S/N	Specification
1.	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better
2.	Lens: 3 to 9 mm or better, DC-iris, motorized
3.	Day and Night: Automatic/manual/scheduled
4.	IR Range: Min 30 Mtr or better
5.	WDR: True WDR >=100 db
6.	Min. Illumination / Light Sensitivity: Color mode: F1.4 @ 0.5 lux and B&W mode: F1.4@ 0.01 lux
7.	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.
8.	Video Compression: H.264, H. 265 and Motion JPEG
9.	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast
10.	Intelligent Video: Motion Detection, Camera Tampering, camera masking
11.	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)
12.	Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project
13.	Audio Support – Required, Audio Compression - G.711 or better, Two-way audio – Required, Input / Output - 01 IN and 01 OUT
14.	Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support
15.	Camera Should remote Zoom and Auto focus
16.	Camera should supplied with 32GB Micro SD/SDHC /SDXC memory card for recording
17.	IP 66 and IK 10 Rated housing
18.	Should be ONVIF Profile S or ONVIF version 2.4 compliant
19.	Certification- CE or FCC and UL/ETL/BIS certified at the time of bidding
20.	Operating Temperature: 0-50 °C

4.2 Outdoor Bullet Camera with Audio and IR

S/N	Specification
1.	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better
2.	Lens: 3 to 9 mm or better, DC-iris, motorized Zoom
3.	Day and Night: Automatic/manual/scheduled
4.	IR Range: Min 30 Mtr or better
5.	WDR: True WDR >=100 db or better
6.	Min. Illumination / Light Sensitivity: Color mode: F1.4 @ 0.5 lux and B&W mode: F1.4@ 0.01 lux
7.	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.
8.	Video Compression: H.264, H. 265 and Motion JPEG
9.	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast
10.	Intelligent Video: Motion Detection, Camera Tampering, camera masking
11.	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)
12.	Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project
13.	Audio Support – Required, Audio Compression - G.711 or better, Two-way audio – Required, Input / Output - 01 IN and 01 OUT
14.	Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support
15.	Camera Should remote Zoom and Auto focus
16.	Camera should supplied with 32GB Micro SD/SDHC/SDXC memory card for recording

17.	IP 66 and IK 10 Rated housing
18.	Should be ONVIF Profile S or ONVIF version 2.4 compliant
19.	Certification- CE/EN, FCC, ETL/UL certified at the time of bidding
20.	Operating Temperature: 0-55 °C, should have sun shield on top of the camera enclosure
21.	Should be supplied with suitable mounting box, L/C Bracket

4.3 Outdoor PTZ Camera

S/N	Parameter	Specification
1.	Sensor	1/3" Progressive Scan CMOS 2 MP or better
2.	Min. Illumination	Color: 0.5 lux 0.01 lux or better
3.	Scanning System	Progressive
4.	S / N Ratio	>50dB
5.	IR Distance	Internal/ External with min 100 meters coverage
6.	IR Intensity	Automatically Adjust
7.	IR on/Off Control	Auto
8.	WDR	True WDR 100 db or better
Lens		
9.	Optical Zoom	20X or better
10.	Focal Length	5.2 to 104mm
11.	Focus Control	Auto/Manual
Pan Tilt Zoom		
12.	Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180°
13.	Manual Control Speed	Pan: 0.1° ~100° /s; Tilt: 0.1° ~100° /s or better
14.	Preset Speed	Pan: 100° /s; Tilt: 100° /s or better
15.	Presets	Minimum 50 Preset Points
Video		
16.	Compression	H.265, H.264, MJPEG or better
17.	Streaming Capability	Individually configurable minimum 03 video streams (H.265/ H.264)
18.	Resolution	1080 P or Better
19.	Frame Rate	1080P (1 ~ 25/30fps)
20.	Day and Night	Automatic, Color, Mono
21.	White Balance	Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp
22.	Noise Reduction	Ultra DNR (2D/3D)
23.	Motion Detection	Required
24.	Region of Interest	Required
25.	Digital Zoom	12X or better
Network		
26.	Ethernet	RJ-45 (10/100Base-T)
27.	Protocols	IPv4,IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP,
28.	Interoperability	Should be ONVIF Profile S or ONVIF version 2.4 compliant
29.	Streaming Method	Unicast / Multicast
30.	Local Storage (memory card of Min 32 GB to be included)	In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically.
31.	Certification	CE or FCC and UL/ETL/BIS certified at the time of bidding
32.	Power	PoE /PoE+(802.3 af/at) OR AC 24V/ DC12V/ 100- 230VAC
General		
33.	Working Temperature / Humidity	0°C to 55 °C, 80% RH non-condensing within enclosure

S/N	Parameter	Specification
34.	Security	Password Protection, HTTPS encryption, IEEE 802.1X
35.	IP Rating	NEMA 4X /IP66 rated Housing
36.	Mounting Accessories	For pole and surface mount with L/C Brackets, mounting box

4.4 UPS 2 KVA with 30 Minutes Backup

S/N	Parameter	Minimum Specification
1.	Output Power Capacity	2 KVA True Online Double Conversion
2.	Technology	Rectifier & Inverter both to be IGBT based PWM
3.	Certifications	CE, BIS and ROHS standards (certified at the time of bidding)
4.	Input Voltage Range	160-280 VAC @ 100% load, Single Phase
5.	Input Freq. Range	50Hz +/- 5% (auto sensing)
6.	Input Protection	Thermal Circuit Breaker/Isolator with fuses
7.	Output Voltage	220/230/240 VAC +/- 1 %
8.	Output Frequency	50Hz ± 2 %
9.	Output Waveform	Pure Sinewave
10.	Output Power Factor	0.8 or better
11.	Efficiency	> 90%
12.	Battery Type	SMF-VRLA (Sealed maintenance free valve regulated lead acid)
13.	Battery Make	Exide, Quanta, Panasonic, CSB, Yuasa, Relicell or equivalent
14.	Battery Backup	30 min backup on Full Load
15.	Communication	RS 232 or USB port with software for UPS status monitoring
16.	Protection	Inherent protection should be provided for Output Short-circuit and Overload, Input Fault, Cold Start, Low battery, Battery Over and Under charge, Battery Disconnect, Battery self-test feature, Over Temperature, OVCD, External Transient Voltage Surge Suppressor, etc.
17.	LCD Display	Input Voltage, Input Frequency, Output voltage, Output Current, Output Frequency, Battery Voltage, UPS Status, Load Level, Battery Level, Discharge Timer, Battery Disconnect and Fault Conditions
18.	By Pass	Manual or Automatic (Built-in) Bypass switch should be provided
19.	Environment	Noise Level – less than 50 dB at a distance of 1 meter
20.	Operating Temperature	0-40° C
21.	Miscellaneous	ECO Mode Operation with Enable/Disable function
		Cables: With all necessary cables and plug and Battery links
		Rack: Suitable Metallic Rack for housing of SMF Batteries to be provided

4.5 UPS 1 KVA with 30 Minutes Backup

S/N	Parameter	Minimum Specification
1.	Output Power Capacity	1 KVA True Online Double Conversion
2.	Technology	Rectifier & Inverter both to be IGBT based PWM
3.	Certifications	CE, BIS and ROHS standards (certified at the time of bidding)
4.	Input Voltage Range	160-280 VAC @ 100% load, Single Phase
5.	Input Freq. Range	50Hz +/- 5% (auto sensing)
6.	Input Protection	Thermal Circuit Breaker/Isolator with fuses
7.	Output Voltage	220/230/240 VAC +/- 1 %
8.	Output Frequency	50Hz ± 2 %
9.	Output Waveform	Pure Sinewave

10.	Output Power Factor	0.8 or better
11.	Efficiency	> 90%
12.	Battery Type	SMF-VRLA (Sealed maintenance free valve regulated lead acid)
13.	Battery Make	Exide, Quanta, Panasonic, CSB, Yuasa, Relicell or equivalent
14.	Battery Backup	30 min backup on Full Load
15.	Communication	RS 232 or USB port with software for UPS status monitoring
16.	Protection	Inherent protection should be provided for Output Short-circuit and Overload, Input Fault, Cold Start, Low battery, Battery Over and Under charge, Battery Disconnect, Battery self-test feature, Over Temperature, OVCD, External Transient Voltage Surge Suppressor, etc.
17.	LCD Display	Input Voltage, Input Frequency, Output voltage, Output Current, Output Frequency, Battery Voltage, UPS Status, Load Level, Battery Level, Discharge Timer, Battery Disconnect and Fault Conditions
18.	By Pass	Manual or Automatic (Built-in) Bypass switch should be provided
19.	Environment	Noise Level – less than 50 dB at a distance of 1 meter
20.	Operating Temperature	0-40° C
21.	Miscellaneous	ECO Mode Operation with Enable/Disable function
		Cables: With all necessary cables and plug and Battery links
		Rack: Suitable Metallic Rack for housing of SMF Batteries to be provided

4.6 Video Management Software

S/N	Parameter	Minimum Specification
1.	General	<ul style="list-style-type: none"> The VMS should support any ONVIF compliant IP cameras VMS shall be capable of being deployed in a virtualized server environment without loss of any functionality. All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking on the camera location on the graphical map.
2.	User Management	Centrally controlled user management - Users, roles, rules and privileges should be stored on the VMS server allowing any authorized user to log into any workstation.

S/N	Parameter	Minimum Specification
3.	Device Discovery	The VMS shall have ability to easily install, configure, modify, search and remove surveillance devices with automatic discovery of IP devices.
4.	Event management	The VMS shall have ability to enforce custom settings for event detection, alarm notification, recording, input/out (I/O) control, and other features in response to events. The alarm management module shall support graphical displays with interactive icons to display the status of the cameras & other inputs.
5.	Software/Patch Upgrade	It Should allow quick software and patch upgrade and support of new devices, drivers and operating systems. System should be able to implement software upgrades without requiring all hardware components to be reconfigured.
6.	Recording & Transfer	<ul style="list-style-type: none"> - Should support Multiple streaming - Should allow each stream to be viewed independently by client viewer. - Recording from connected cameras Should be stored in individual databases. - Should support multiple storage formats - Should support recording in all resolution at desired FPS - Should support video cum audio recording - shall support automatic failover for recording - Should automatically retrieve and store recording stored on the camera once the network connectivity between the camera storage and the VMS is restored - shall be capable of transferring recorded images to recordable media (such as CD/DVD and/or tapes) - or Video Exports with Watermark and Encrypted with SSL / TSL technology, one can protect the video tampering and prove that the video is not tampered
7.	Motion Zone Masking	VMS should Support Exclusion of Motion /Masked Zones to enhances optimized recordings and storage.
8.	Customized Record Retention	Should support Customized recording retention period for specific camera, group, area etc.
9.	Device Grouping	<ul style="list-style-type: none"> - The VMS shall have ability to logically group devices based on installation location, device type, configuration type or any other predefined rules. - Individual cameras/devices should have the capability to inherent rules from parent group/subgroup.
10.	Parameter Configuration	The VMS shall have ability to configure multiple streams with different quality parameters e.g. Codec (H.264, H.265, MPEG, JPEG) , resolution, frame & bit rate etc.
11.	Protocol Support	HTTP, TCP, UDP, RTSP, Multicast.
12.	Device Search	The VMS shall have ability to search and view device(s) based on standard criteria like ID, Name, Location, Group, Type etc.
13.	Storage Indexing	VMS should store video feeds in a standard folder tree structure so that it becomes easy for system admin to browse videos categories based on year, month, date and time wise. Also, the file name should indicate important attributes like camera location, date, time etc.
14.	Video Wall / Monitor Support	<ul style="list-style-type: none"> - Multiple monitor support: The system should allow connecting multiple monitors on single client workstation and display different contents on each of the connected monitor. - All panes / tiles should indicate mode (live or recoded), source (camera

S/N	Parameter	Minimum Specification
		<p>name/location) and date/time and applied quality information (FPS, CODEC).</p> <ul style="list-style-type: none"> - The font color shall be changed automatically in sync with the video/image to have a clear text reading at any point of time. - A matrix view should support multiple formats on video wall and any number of multiple screen divisions.
15.	Controls	<p>PTZ configuration and control including presets, patterns, patrolling, priority, Zoom in/out and permissions.</p> <p>PTZ Control, Digital PTZ Control, PTZ Joystick Support, Preset position setup, Preset position search, Optical zoom in, zoom out, focus in, focus out, Digital zoom enable / disable, Full screen view enable/disable, Camera connect/disconnect</p>
16.	Shortcut Keys	<p>Along with menu-driven interface, a VMS should also support custom shortcut keys to helps operators quickly switch between different modules/screens, change views or panes/tiles and to carry out playback functions.</p>
17.	Image Snapshot	<p>System should allow creating a still image from live or recorded feed and storing it into a workstation.</p>
18.	Display Interface	<p>Option to view surrounding cameras: The system should enable operators to select master camera feed and based on group/subgroup details, its surrounding cameras should be automatically displayed on separate panes. These panes/tiles should be dynamically generated so that operator does not need to manually pull the feeds from desired cameras.</p>
19.	Video Search and retrieval	<p>The VMS shall have ability to quickly search and retrieve recordings: Search methods should include search by camera(s), group, date/time, alarm/event / bookmark list, smart (motion) search by creating motion index or by generating thumbnail summary of a video archive to locate specific event.</p>
20.	Playback Control	<p>The system should offer following playback controls like Play/Pause, Lock speed, Forward playback (1x, 2x, 4x), Reverse playback (-1x, -2x, -4x), Slow forward playback (frame by frame, 1/8x, 1/4x, 1/3x, 1/2x, 1x), Slow reverse playback</p>
21.	Camera Tampering	<p>The VMS should provide a centralized camera tampering detection solution in real-time by automatically identifying tampering to ensure video image capture and integrity The solution sends an alert when the following potential tampering is detected:</p> <ul style="list-style-type: none"> • Scene too bright — e.g. flash light, direct sun, laser pointer that is pointed at the camera, causing it to become over saturated. • Scene too dark — not enough light to see a clear image, if camera is covered. • Camera is covered or blocked — if something is blocking or partially blocking most of the camera’s field of view. • Camera redirection detection — if camera is redirected from its’ initial position of field of view (FOV). • Unfocused or blurred view — if the camera was sprayed with rain or its focus changed. <p>The System should be able to detect tampering on any IP camera that has been discovered in the VMS</p> <p>Further the VMS should also be able to get the video tampering information from Camera and display as alerts in VMS</p>
22.	Reports	<p>The system should provide interactive reporting interface with standard and</p>

S/N	Parameter	Minimum Specification
		user-defined custom reports and filtering options to: <ul style="list-style-type: none"> - Review currently logged in users and functions being performed. - Retrieve audit trails - user activities, errors and system logs. - View list of hardware units and selected configuration options. - List down configured users and corresponding roles & permissions. - View details of bookmarks, event/alarm history and exported evidences.
23.	Security	<ul style="list-style-type: none"> - The VMS recorders should be able to connect via a secure connection using authentication and encryption <ul style="list-style-type: none"> o Authentication - user and password credentials o Encryption – 256 Bit encryption Techniques - The VMS recorder should be able to connect via a secure HTTPS connection to its associated edge devices (IP cameras & encoders) - The VMS management database connection should be encrypted using 256-bit encryption - The VMS should encrypt the exported file format using password protection

4.7 Server With 16TB/8 TB Storage

S/N	Parameter	Specification
1.	Processor	Latest Intel Xeon processor with minimum 2 Processor and 8 core per Processor or better, 2.0 GHz or better
2.	RAM	16 GB DDR4 Registered (RDIMM) memory upgradeable up to 128 GB or more
3.	Internal Storage	Minimum 16TB for 15 Cameras setup Minimum 8TB usable for 8 Cameras setup
4.	Cache	15 MB L3 or better
5.	Network interface	2 X 1Gb ports for providing Ethernet connectivity
6.	Power supply	Dual Redundant Power Supply
7.	RAID support	As per requirement/solution
8.	Operating System	Licensed latest version of Linux/Windows based Operating System
9.	Form Factor	Rack/Blade (along with Suitable chassis)

4.8 42”or higher display unit

S/N	Parameter	Minimum Required Specifications
1.	Configuration	Full HD LED
2.	Screen Size	42” or higher
3.	Resolution	Full High definition (1920 X 1080)
4.	Contrast Ratio	1000:1 or better
5.	Brightness	300 Cd/m2 or better
6.	Input & Output	PC input (D-sub)-1/ HDMI-1, USB
7.	Audio in	Yes (1)
8.	Audio out	Yes (1)
9.	Usage	16/7 usage
Accessories		
10.	Accessories	VGA/HDMI cable (Please mention the length of the cables), AC power cable, Remote Control, Batteries, Wall mount bracket

4.9 L2 Network Switch 8 Port PoE

S/N	Item (Minimum Specification)
1.	Switch should have minimum 8 No's of 10/100/1000 Base-Tx PoE ports (Duplex, Full, Half) and 2 nos' of SFP ports (2 SFP Slots loaded with 1 Gbps Multimode SFP Module). Switch PoE power rating should sufficient to support the cameras to be connected
2.	Should have minimum switching capacity of 8 Gbps. All ports on the switch should work on line rate.
3.	Should be IPv4 and IPv6 ready from day one
4.	Should have IGMP snooping v1,2 & 3 supporting min 100 multicast groups
5.	It shall support IEEE 802.1s Multiple Spanning Tree Protocol and provide legacy support for IEEE 802.1d STP and IEEE 802.1w RSTP or equivalent technology and static routes.
6.	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN, with multiple uplinks
7.	All ports should have features of auto- negotiate, flow control (802.3x), port based network access control (802.1x), port security, MAC filtering etc.
8.	The switch should support, IPv6 DHCP-Guard/ DHCP Snooping, Source-Guard features
9.	All necessary SFP's, interfaces, connectors, patch cords (if any) & licenses must be delivered along with the switch from day one.
10.	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP)/NTP, Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, protocol-based VLANs
11.	Duplicate address detection (DAD)
12.	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord, suitable Patch Panels with I/O's
13.	Should support Open Flow

4.10 9U Rack

Item (Minimum Specification)
9 U wall mounting rack – Rigid frame that can be fixed to the wall, 19" Adjustable rails in the front and rear, Front section with glass door and lock, Top and bottom cable entry facility, 600mm wide * 450 mm deep, Cable managers, Earth continuity kit, Steel powder coated cabinet, AC power Distribution box equipped with fuse and Indian Standard Socket (Bidder has to carry out installation/fixing)

4.11 Surge Protection Power Strips

S/N	Parameter	Minimum Specification
1.	Clamping Voltage	240 V
2.	Response time	<10 ns
3.	Energy Dissipation	Min 500 joules
4.	Max voltage Spike protection	Up to 400 Volts
5.	Max current Spike Protection	5000 Amps
6.	Cable	Heavy duty Cable of standard Length
7.	Power Outlet	Min. 4 Nos. 5 Amp Indian Standard Power Outlets
8.	Operating Temperature	0-55 ° C .The bidder has to take into consideration of the internal temperature adjustment of the junction box

Section 6: Price Bid Format

Bidder has to fill the details in the BoQ, BoQ for the each cluster is as below:

1. Police Station BoQ – Set A (9 Nos. of Camera)

S/N	Description	Qty	Supply			Installation			Total Price With 5 Years Warranty (In Rs.) (Without Tax)
			Unit Price With 5 Year Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Tax (GST) (%)	Unit Price With 5 Year Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Tax (GST) (%)	
1	Indoor Fixed Dome Cameras with Audio	6							
2	Outdoor Bullet Camera with Audio	2							
3	Outdoor PTZ Camera	1							
4	Server With 8 TB Storage	1							
5	Video Management Software with 9 camera licenses	1							
6	L2 Network Switch 8 Port PoE	2							
7	42" or display unit	1							
8	UPS 1 KVA with 30 minutes Backup	1							
9	9U Rack	1							
10	Surge Protection Power Strips	1							
11	CAT 6 cable (in meter)	400							
12	Cable laying in MS conduit including supply of MS conduit and all required accessories (in meter)	200							
13	Helpdesk software	1							
14	6 meter pole for PTZ camera	1							
15	Installation, Testing and commissioning and required electrification of entire system with all required accessories (Lot)	1							
Total Price With 5 Years Warranty (In Rs.) (Without Tax) (Supply + Installation)									

2. Police Station BoQ – Set B (15 Nos. of Camera)

S/N	Description	Qty	Supply			Installation			Total Price With 5 Years Warranty (In Rs.) (Without Tax)
			Unit Price With 5 Year Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Tax (GST) (%)	Unit Price With 5 Year Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Tax (GST) (%)	
1	Indoor Fixed Dome Cameras with Audio	9							
2	Outdoor Bullet Camera with Audio	5							
3	Outdoor PTZ Camera	1							
4	Server With 16 TB Storage	1							
5	Video Management Software with 15 camera licenses	1							
6	L2 Network Switch 8 Port PoE	3							
7	42" or higher display unit	1							
8	UPS 2 KVA with 30 minutes Backup	1							
9	9U Rack	1							
10	Surge Protection Power Strips	1							
11	CAT 6 cable (in meter)	600							
12	Cable laying in MS conduit including supply of MS conduit and all required accessories (in meter)	400							
13	Helpdesk software	1							
14	6 meter pole for PTZ camera	1							
15	Installation, Testing and commissioning and required electrification of entire system with all required accessories (Lot)	1							
Total Price With 5 Years Warranty (In Rs.) (Without Tax) (Supply + Installation)									

Total Price = Set A + Set B

S/ N	Item	Qty. (In Nos.)	Unit Price With 5 Year Warranty (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)
A	B	D	E	F=(D*E)
1.	Police Station BoQ – Set A (9 Nos. of Camera)	3		
2.	Police Station BoQ – Set B (15 Nos. of Camera)	10		
Total				

Note:

- All the above-mentioned line items should comply to Technical specifications and Scope of work including all applicable Licenses, Active and passive Cabling and Accessories, Installation, Commissioning and Configuration and onsite Support.
- Above mentioned quantities are indicative and for evaluation purpose only, the actual quantities may vary at the time of placing the order.
- Rate to be filled should be inclusive of Packing/ Forwarding, Insurance, FOR destination, Transit Charges (anywhere in the Gujarat state) and with applicable warranty. GST needs to be shown separately
- The rates should be valid for a period of 1 year from the date of financial bid opening.
- Financially L1 bidder will be decided from the sum total of prices for all line items without tax

Annexure II -Tentative list of Police Station with CCTV Camera bifurcation.

Sr. No	District	Police Station	As per RFP required CCTV Cameras
1	Chhota Udaipur	Chhota Udaipur	15
2	Kutch Bhuj (West)	jakhau coastal	15
3	Botad	Mahila Police station	15
4	Jamnagar	Sikka	9
5	Rajkot (Rural)	Atkot	9
6	Kutch (West) Gandhidham (Bhachau Division)	Balasar	9
7	Panchmahal-Godhara	Halol Rural	15
8	Navsari	Maroli	15
9	Ahmedabad	Sabarmati Riverfront East	15
10	Ahmedabad	Vasna	15
11	Ahmedabad	Narol	15
12	Ahmedabad	Airport	15
13	Ahmedabad	Bodakdev	15

Section - 7

Performa of Compliance letter/Authenticity of Information Provided

(On Non judicial Stamp paper of 100 duly attested by the First class Magistrate/Notary Public)

Date:

To,
DGM(Tech.)
Gujarat Informatics Ltd.
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010

Sub: Compliance with the Tender Terms & Conditions, Specifications and Eligibility Criteria.

Ref: RFP.NO. GIL\Police Station\Video Surveillance\2018-19

Dear Sir,

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder>>.

We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid submitted by us on **DD.MM.YYYY**.

We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet technical specification of the bid & that such technical specification overrides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of GIL Tender Committee for disqualification will be accepted by us.

The Information provided in our submitted bid is correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/ PBG/cancel the award of contract. In this event, GIL reserves the right to take legal action on us.

Thanking you,

Dated this _____ day of _____ 2018

Signature: _____

(In the Capacity of) : _____

Duly authorized to sign bid for and on behalf of

Note: This form should be signed by authorized signatory of bidder

Annexure A

Format of Earnest Money Deposit in the form of Bank Guarantee

Ref: Bank Guarantee No.
Date:

To,

DGM (Technical)

Gujarat Informatics Limited
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector 10A, Gandhinagar – 382 010
Gujarat, India

Whereas ----- (here in after called "the Bidder")) has submitted its bid dated ----- in response to the RFP.NO. GIL\Police Station\Video Surveillance\2018-19 Bid for Selection of Agency for Supply, Installation, Commissioning and warranty support of various Equipments for the Implementation of Video Surveillance System at Police Station KNOW ALL MEN by these presents that WE ----- having our registered office at ----- (hereinafter called "the Bank") are bound unto the Gujarat Informatics Limited in the sum of ----- for which payment well and truly to be made to Gujarat Informatics Limited , the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this -----day of -----2018.

THE CONDITIONS of this obligation are:

1. The E.M.D. may be forfeited:
 - a. if a Bidder withdraws its bid during the period of bid validity
 - b. Does not accept the correction of errors made in the tender document;
 - c. In case of a successful Bidder, if the Bidder fails:
 - (i) To sign the Contract as mentioned above within the time limit stipulated by purchaser or
 - (ii) To furnish performance bank guarantee as mentioned above or
 - (iii) If the bidder is found to be involved in fraudulent practices.
 - (iv) If the bidder fails to submit the copy of purchase order & acceptance thereof.

We undertake to pay to the GIL/Purchaser up to the above amount upon receipt of its first written demand, without GIL/ Purchaser having to substantiate its demand, provided that in its demand GIL/ Purchaser will specify that the amount claimed by it is due to it owing to the occurrence of any of the abovementioned conditions, specifying the occurred condition or conditions.

This guarantee will remain valid up to **15 months** from the date of bid submission. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that if this guarantee is extended for a period as mutually agreed between bidder & owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.



The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Dated at _____ on this _____ day of _____ 2018.

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch &
Its official Address

(Approved Bank: All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative & Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf.) issued by Finance Department or further instruction issued by Finance department time to time)



Section - 8

Performa of Contract-cum-Equipment

Performance Bank Guarantee

(To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.

Date:

To

Name & Address of the Purchaser/Indenter

Dear Sir,

In consideration of <<Name & Address of the Purchaser/Indenter, Government of Gujarat, Gandhinagar>> (hereinafter referred to as the OWNER/PURCHASER which expression shall unless repugnant to the context or meaning thereof include successors, administrators and assigns) having awarded to M/s. having Principal Office at (hereinafter referred to as the "SELLER" which expression shall unless repugnant to the context or meaning thereof include their respective successors, administrators, executors and assigns) the supply of _____ by issue of Purchase Order No..... Dated issued by Gujarat Informatics Ltd. ,Gandhinagar for and on behalf of the OWNER/PURCHASER and the same having been accepted by the SELLER resulting into CONTRACT for supplies of materials/equipments as mentioned in the said purchase order and the SELLER having agreed to provide a Contract Performance and Warranty Guarantee for faithful performance of the aforementioned contract and warranty quality to the OWNER/PURCHASER, _____ having Head Office at (hereinafter referred to as the 'Bank' which expressly shall, unless repugnant to the context or meaning thereof include successors, administrators, executors and assigns) do hereby guarantee to undertake to pay the sum of Rs. _____ (Rupees _____) to the OWNER/PURCHASER on demand at any time up to _____ without a reference to the SELLER. Any such demand made by the OWNER/PURCHASER on the Bank shall be conclusive and binding notwithstanding any difference between Tribunals, Arbitrator or any other authority.

The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that the guarantee herein contained shall continue to be enforceable till the OWNER/PURCHASER discharges this guarantee. OWNER/PURCHASER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance by the SELLER of the aforementioned CONTRACT. The OWNER/ PURCHASER shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the SELLER, and to exercise the same at any time in any manner, and either to enforce to forebear to enforce any covenants contained or implied, in the aforementioned CONTRACT between the OWNER/PURCHASER and the SELLER or any other course of or remedy or security available to the OWNER/PURCHASER.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Notwithstanding anything contained herein above our liability under this Guarantee is restricted to Rs. _____ (Rupees _____) and it shall remain in force up to and including _____ and shall be extended from time to time for such period as may be desired by the SELLER on whose behalf this guarantee has been given.

Dated at _____ on this _____ day of _____ 2018.

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch &
Its official Address

List of approved Banks

Approved Bank: All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative & Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf.) issued by Finance Department or further instruction issued by Finance department time to time



CONTRACT FORM

THIS AGREEMENT made on the _____ day of _____, 20 ____ Between _____ (Name of purchaser) of _____ (Country of Purchaser) hereinafter "the Purchaser" of the one part and _____ (Name of Supplier) of _____ (City and Country of Supplier) hereinafter called "the Supplier" of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz., _____ (Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of _____ (Contract Price in Words and Figures) hereinafter called "the Contract Price in Words and Figures" hereinafter called "the Contract Price."

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1 In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2 The following documents shall be deemed to form and be read and construed as part of this Agreement, viz. :
 - 2.1 the Bid Form and the Price Schedule submitted by the Bidder;
 - 2.2 terms and conditions of the bid
 - 2.3 the Purchaser's Notification of Award
- 3 In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
- 4 The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
- 5 Particulars of the goods and services which shall be supplied / provided by the Supplier are as enlisted in the enclosed annexure :

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

Said _____ (For the Purchaser)

in the presence of _____

Signed, Sealed and Delivered by the

said _____ (For the Supplier)

in the presence of _____

Section - 9 Annexure

Bid Processing Fees & Earnest Money Deposit Details:

Sr. No.	Item	Amount (In Rs.)	Name & branch of the bank	Demand Draft No./Date
1	Bid Processing Fees			
2	Earnest Money Deposit (E.M.D.)			

ELIGIBILITY CRITERIA

Form no. E1: Financial strength of the bidder:

Sr. No.	Turnover in Crore			Audited Accounts Statement/CA Certificate Submitted? (Yes/No)
FY				

Note: Please fill this form and upload Audited Annual Accounts for the last three financial years.

Form no. E2: Bidder's Office in GUJARAT:

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				

Note: Please fill this form and submit the supporting documents. Failing the same may lead to the rejection of the bid. You may mention more than one office (if applicable) by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E3: Bidder's Experience in installation of minimum 05 LAN/WAN system with minimum 50 nodes and operational in the campus or different campus.

Sr. No.	Name of the Customer	Address of Installation	Start Date of Project	Completion Date of the Project	Scope of Work. Also specify the system installed	Specify No. of Active & Passive Components	Value of the project in Rs.	No. of Nodes installed
1								
2								
.								

Note: Please fill this form and upload necessary supporting documents like copies of purchase order / contract agreement and completion certificate for each of project details mentioned, as a proofs in the eligibility section. You may add the customer references by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E4: Bidder's Experience of executing IP CCTV Camera / Surveillance System Project:

Sr. No.	Name of the Organization	Address of installation	P.O/ W.O. Date	No. of IP CCTV Cameras Installed	Value of the project in Rupees	Document attached or not?
1						
2						

Note: Please fill this form and upload necessary supporting documents like copies of purchase order / contract agreement and completion certificate for each of project details mentioned, as a proofs in the eligibility section. You may add the customer references by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E5: Authorization Letters:

Sr. No.	Item	Make & Model	Name of OEM	Authorization Certificate A (Yes/No)
1	Indoor Fixed Dome Cameras with Audio			
2	Outdoor Bullet Camera with Audio			
3	Outdoor PTZ Camera			
4	Server With 8 TB /16 TB Storage			
5	Video Management Software with 9 cameras/15 cameras licenses			
6	L2 Network Switch 8 Port PoE			
7	42" or higher display unit			
8	UPS 1 KVA/2 KVA with 30 minutes Backup			

Note: Please upload necessary supporting proofs in eligibility section.

Form no. E6: Office and Service Center in India of OEM / IP CCTV Camera Product Company:

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				

Note: Please fill this form and submit the supporting documents. Failing the same may lead to the rejection of the bid. You may mention more than one office (if applicable) by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E7: Experience of OEM / IP CCTV Camera Product Company:

Sr. No.	Name of the Organization	Address of installation	P.O/ W.O. Date	No. of IP CCTV Cameras Installed	Value of the project in Rupees	Document attached or not?
1						
2						
.						

Note: Please fill this form and upload necessary supporting documents like copies of purchase order / contract agreement and completion certificate for each of project details mentioned, as a proofs in the eligibility section. You may add the customer references by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Annexure-I

Police Station CCTV Project: Installed Equipment Makes and Model

M/s Wipro Infotech Ltd., Ahmedabad

Sr. No.	Product	Make	Model
1	1MP Fixed Camera with Audio and IR	Dvtel	CM-4221-01
2	1MP Fixed Camera with Audio	Dvtel	CM-4221-01
3	1MP Bullet Camera with Audio and IR	Dvtel	CF-4221-00
4	2 MP, 18x PTZ Camera	Dvtel	CP-4221-201
5	8 Port 10/100 network switch - PoE	CISCO	SG 300 -10P
6	Server with storage for 30 days	Dell	T430
7	UPS (1KVA/2KVA)	Emerson	1) GXTMT+CX1KLB 2) GXTMT+CX2KLB
8	UPS Battery	Exide	-
9	Rack	WQ	-
10	Video Management Software	Dvtel	Latitude V6.3
11	Help Desk Software	WPRO	-
12	42" LED for monitoring all cameras	LG	42LX330C
13	Cat-6 Cable	D-link	NCB-CGUGRYR-306
14	Power Cable	Polycab, Finolex	-

M/s Godrej & Boyce Ltd., Ahmedabad

Sr. No.	Product	Make	Model
1	1MP Fixed Camera with Audio and IR	Panasonic	WCSFV611L
2	1MP Fxed Camera with Audio	Panasonic	WVSFV611L
3	1MP Bullet Camera with Audio and IR	Panasonic	WVSPW611L
4	2 MP, 18x PTZ Camera	Panasonic	WVSW598
5	8 Port 10/100 network switch - PoE	HP	HP1920-8G-POE+
6	Server with storage for 30 days	HP	ML 150G9
7	UPS (1KVA /2KVA)	Emerson	1) GXT-MT+BX 1KL 2) GXT-MT+CX 2KL
8	UPS Battery	Exide	-
9	Rack	Valrack	-
10	Video Management Software	Milestone	Xprotect Professional
11	Help Desk Software	Sapphire	-
12	42" LED for monitoring all cameras	Panasonic	TH-AM410D
13	Cat-6 Cable	D-link	D-link
14	Power Cable	Polycab +Havellas +Finolex	-