

Bid Document



GUJARAT INFORMATICS LIMITED
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector-10 A, Gandhinagar 382 010
Phone No: 079 - 23256022

Bid for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat - Tender No. HWT240120609

Pre-bid Meeting: 31.01.2020 at 1500 hours

Last Date of Submission of Bid: 17.02.2020 till 1500 hours

Last Date of Submission of Bid Processing Fees & EMD: 17.02.2020 till 1500 hours

Date of Opening of Technical Bid: 17.02.2020 on 1700 hours

Bid Processing Fee: Rs. 17,700/-

Introduction

Gujarat Informatics Limited (herein after referred to as GIL), on behalf of Office of the Commissioner of Higher Education, Government of Gujarat (herein after referred to as the Purchasers) for the requirements of Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, intend to invite your bid for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat. (Tender No. HWT240120609).

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

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.

The selected agency will have to supply, install and maintain the supplied hardware as per the scope defined in this bid for the contract period.

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.

Proposal in the form of BID are requested for the items/services in complete accordance with the documents to be uploaded as per following guidelines.

Bidder shall submit their bids on <https://www.gil.nprocure.com>.

The bidder will have to submit **Nonrefundable Bid Processing Fees of Rs. 17,700/- & Earnest Money Deposit (E.M.D.) of Rs. 10,00,000/- (Refundable)** on or before date & hours of submission of bid in a sealed cover at GIL office with the heading **“Bid processing Fees & EMD for E-tender no. HWT240120609 for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat.”**

- **Bid processing fees** must be in the form of **Demand Draft** in the name of **“Gujarat Informatics Limited.”** payable at Gandhinagar along with the covering letter.
- **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 for 9 months from the last 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) and must be submitted along with the covering letter.

Please affix the stamp of your company on the overleaf of demand draft.

Note: Failing to submit physical covers of EMD and Bid Processing Fees at GIL on or before the last date & time of submission as given in this bid, may lead to the rejection of the bid.

The Bid Processing Fees & EMD Section and Eligibility Section will be opened on the specified date & time in the 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.

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.

In addition to this bid, the following sections uploaded are part of Bid Documents.

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The summary of various activities with regard to this invitation of bids are listed in the table below:

1	Bid Reference Number	Tender No. HWT240120609
2	Date of Pre-Bid Meeting	31.01.2020 on 1500 hours
3	Venue of Pre-Bid Meeting	Gujarat Informatics Limited Block No. 2, 2 nd Floor, Karmayogi Bhavan, Sector-10A, Gandhinagar 382 010
4	Last Date & Time for Submission of Bids electronically on https://www.gil.nprocure.com	17.02.2020 till 1500 hours
5	Date & Time of Opening of Bids (Un-priced Bids)	17.02.2020 at 1700 hours
6	Date & Time of Opening of Commercial Stage	Will be intimated to the qualified bidders at a later date.
7	Venue of Opening of Bids	Gujarat Informatics Limited Block No. 2, 2 nd Floor, Karmayogi Bhavan, Sector-10A, Gandhinagar 382 010
8	Bid Processing Fees (Non-refundable)	Rs. 17,700/- (Rupees Seventeen Thousand Seven Hundred Only)
9	Earnest Money Deposit (E.M.D.)	Rs. 10,00,000/- (Rupees Ten Lacs Only)
10	GIL Contact Person	DGM (Tech.), GIL

Note: Please specify Tender Number in all your correspondence.

SECTION I

Eligibility Criteria for the bidder:

1. The bidder should have a total sum of turnover of Rs. 15 Crore (Minimum) in the last three financial years as on 31st March 2018. The copies of Audited Annual Accounts/Balance Sheet along with Profit & Loss Account and CA Certified Statement for last three financial years as on 31st March 2019 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 services. The details of such service support infrastructure must be enclosed. Please upload 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 / GST Registration / Valid Lease Agreement. **(Form no. E-2). In case, bidder does not have office in Gujarat, bidder should give undertaking to open office in Gujarat within 45 days from the date of purchase order.**
3. **Bidder's past experience:**
 - (a) The Bidder should have at least 3 years of 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. The bidder should be authorized by its OEM to quote this bid for the items specified **(Form no. E-5)** for the authenticity, authorized representation and after sales support. The bidder should have a back-to-back support agreement/arrangement for services including supply of spare parts etc. with the Original Equipment Manufacturer (OEMs). Please upload the copy of Authorization on OEM letterhead and signed by authorized signatory for the item(s) to be offered in this bid.
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** (i.e. If bidder wants to quote the "X" brand of CCTV Camera, then OEM of "X" brand of CCTV Camera should have registered office and service center in India since last 3 years). 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 / GST 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). **OR** 3 projects containing minimum 170 IP CCTV Cameras (of quoted camera brand) **OR** 5 projects containing minimum 100 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)**
6. No consortium will be allowed. The bidder must meet all the eligibility criteria by self. Bidders undertaking should be submitted.

7. Bidder should not be blacklisted by any Ministry of Government of India or by any State Government of India or any of the Government PSUs at the time of bidding. Self-Declaration mentioning that the Bidder is not blacklisted as per the clause should be submitted.
8. All IP Cameras, NVR, software should be from same OEM.

Note:

1. All the details and the supportive documents for the above mentioned items should be uploaded in eligibility section in the bid.
2. 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 II

Scope of Work

Bidder is required to Supply, Installation and Commissioning of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education as per the specifications mentioned in the bid document.

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

Unit cost is required to be offered for all the items as requested with 5-years warranty. 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. A certificate to that effect should be furnished from OEM. All equipment shall conform to the codes, standards and regulations applicable and benefit from the usual manufacturer's guarantees.

The bidder should submit OEM's confirmation that the Products quoted are not end-of-life for the further period of 7 years from the date of authorization.

COH/GIL do not guarantee any fixed quantity at the time of signing the contract / agreement. The rates should be valid for a period of **180 days** from the date of financial bid opening.

Bidder will be responsible for providing required Software licenses. All license software must be in the name of the purchasing department.

Bidder is required to carry out following tasks:

- **Scope of work for LAN Cabling Work:**

1. The requirement of IP CCTV Cameras System with other accessories mentioned in the bid is indicative. At the time of implementation, depending upon the grant availability, cameras & required accessories per location will be procured.
2. Bidder will be responsible to undertake and complete the works related to supply, installation and commissioning of services as indicated in the bid and within the duration prescribed in the bid. The bidder has to lay the LAN Cable for fulfill the requirements as per bid.
3. The Bidder is requested to visit the site(s) before submission of their bid for any other clarification / measurements for finalization of scope of work / supply before submission of their bid.
4. The quantity mentioned in the bid document is indicative based on the initial survey carried out for the project estimation. However, at the time of implementation, bidder will have to submit the layout diagram for each school indicating the location of equipment to be installed for the installation of CCTV surveillance system and get it approved from the respective Institute/College/HOD/COH before starting the installation. The concern authority will decide the location of installation and approve the same. Bidder is required to install the camera in consultation with respective Institute/College/HOD/COH.
5. It is envisaged that the bidder has understood the requirement fully and shall comply with the technical & functional requirements of the offered system including the scope of work/ services.
 - Complete installation shall be done in accordance with installation practices for a well structured cabling system, using components from a single vendor to ensure consistent and assured performance. The structured cabling distribution network shall serve as a vehicle for transport of data, video and voice signals throughout the network.
 - Installation, termination and identification of wiring between station outlets and Equipment Room shall be considered part of the Successful Bidder work.
 - The system shall utilize a network of unshielded twisted pair, riser, tie and station cables. Cables and terminations shall be provided and located as per the requirements mentioned in bid.

- All cables and terminations shall be identified at all locations.
 - All cables shall terminate in an alphanumeric sequence at all termination locations.
 - All balanced twisted pair cable terminations shall comply with, and be tested to TIA/EIA568-B standards for Category 3, Category 5e, Category 6 & Category 6A installations.
 - The Successful Bidder carrying out the Supply, Installation, Testing and Commissioning (SITC) shall 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 most current versions of software and applications shall be provided by the Successful Bidder, as applicable at the time of execution and commissioning.
 - The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
 - The Vendor needs to pull necessary cables up to required place, using approved PVC Piping / Channel / CAT6 Cable.
 - The Passive Components of structured cabling distribution network will be free from manufacturing defects in material and workmanship under normal and proper use;
 - All Passive Components in the structured cabling distribution network meet or exceed the relevant component specification of the TIA 568-B series standards;
 - The structured cabling distribution network compliant channels will meet or exceed the Guaranteed Channel Performance as per relevant standards in the structured cabling distribution network Performance Specifications in effect at the time of installation.
- **Scope of work for installing Active Components:**
 - Supply, Installations, Testing & Commissioning of Switches as per Technical specification.
 - The switches will be installed at locations identified for the IP surveillance installations.
 - The cameras have to be connected to the switches.
 - UPS installation along with necessary electrification is required to connect UPS to Mains and Switches & NVR to UPS.
 - The successful bidder has to provide on-site warranty for all active components and other equipment as mentioned in RFP.
- **Scope of work for IP Video Surveillance / CCTV System:**
 1. Supply, Installations, Testing & Commissioning of High performance IP based video surveillance system with cameras having built-in web browser, remote access and remote management, complete with storage solution.
 2. The scope is to Supply, Installation, Testing and Commissioning of the entire system end-to-end. The Successful Bidder carrying out the SITC shall 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 most current versions of software and applications shall be provided by the Successful Bidder, as applicable at the time of execution and commissioning.
 3. The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
 4. **IP Video Surveillance System:** This shall include the supply, installation, commissioning & testing of Fixed surveillance cameras, Fixed cameras poles/masts and suitable brackets for mounting the cameras, weather-proof enclosures, fixtures, cables, connectors & any other devices/ peripherals required for the proper functioning of various cameras.

Camera installation at various Government Institutes/colleges working under Office of the Commissioner of Higher Education:

- During the installation, the camera lens position has to be adjusted to get the desired view in the specific location.
- The cameras should be configured with a suitable IP address as per the IP addressing scheme.
- The camera should be configured with OSD (on screen display) name as a water mark so that images can be identified easily.
- 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.

Control Room at respective Government Institutes/colleges:

This shall include the supply, installation, commissioning & testing of NVR, Monitor, network switch, along with cables, connectors and any other devices, peripherals required for the proper functioning of various components. The Control Room will be located in the same institute campus or as decided by respective Institute/College/HOD/COH.

- The NVR shall be configured to view all the cameras in the site in a respective display unit.
- The images displayed in the NVR should have a water mark for easy identification.
- The Control Room shall have Network Video Recorder (NVR) for achieving storage capabilities. For monitoring purposes, display unit shall be set up with suitable mounting arrangements as per user requirements. Facility for viewing and controlling all the cameras as required should be provided.
- NVR/Storage has to be configured as per the technical specifications.
- Cameras should be configured to directly access the local NVR and the storage of NVR. This is to make sure recording happens 24x7.
- The recording should be configured in such a way, when the storage capacity gets to maximum limit., re-write happens on a first in first out basis without any manual intervention.
- The central recording should be configured in such a way, when there is a specific event happened like intrusion or motion detection on specified time then the video clipping or images should be pushed to central storage.
- The system should provide recording storage for minimum 30 days

Central Location Installation:

The central control station installation:

- This shall include the supply, installation, commissioning & testing of Central video monitoring /management software, with adequate user licenses, network switches, along with cabinets, enclosures, fixtures, cables, connectors and any other devices, peripherals required for the proper functioning of various components.
- The Central control station will be located at Gandhinagar in the premises as decided by Commissioner of Higher Education. This location will have high bandwidth internet connectivity.
- All college should have separate VMS for viewing the cameras and separate Storage for recording video footage. The central control station will have one single CMS where all the colleges' camera can be streamed.
- All the cameras have to be pinged and tested from the central command center from Gandhinagar.
- **Live IP based camera viewing facility should be available either individual or with multiple viewing option. i.e. the user can view any individual or multiple cameras installed remotely at different colleges, using internet bandwidth connectivity from the Central Location.**

5. IP Cameras and NVR should be Compatible to each other.

6. All the hardware and software features mentioned in the tender specifications should be available at the time submission of tender. COH / GIL may ask for a demo of all IP cameras and related software as per tender.
7. Display Unit should be provided with Wall / Table mounting Kit.
8. **System Training:** This shall include providing 1-week system operation & maintenance training to the designated security personnel after the successful commissioning of the project. Appropriate training material should be provided during the training.
9. The Scope of complete work would broadly Design, Engineering, Supply, Testing, Installation, Commissioning, Site Acceptance Test, Training, Documentation, Warranty and Maintenance.

10. Components of proposed Surveillance System:

- Bullet Cameras
- Display Arrangement
- Backup Power Supply

11. The successful bidder has to provide on-site warranty for all equipments as mentioned in RFP.
12. 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. Purchasing department will not reimburse any cost towards the same. The Vendor need to take necessary permission if require from concern authority.
13. Display Unit should be provided with Wall / Table mounting Kit.
14. **System Training:** This shall include providing training of system operation & maintenance to the designated security personnel after the successful commissioning of the project. Appropriate training material should be provided during the training.
15. The Scope of complete work would broadly Design, Engineering, Supply, Testing, Installation, Commissioning, Site Acceptance Test, Training, Documentation, Warranty and Maintenance.
16. The successful bidder has to provide on-site warranty for all equipments as mentioned in bid.

● **Acceptance Test:** Acceptance Test will be conducted in as follows:

- Purchasing Department reserves the right to inspect equipment's and OFC/JFC, Cat-5/Cat-6 cables etc. The cost of all such tests shall be borne by the Vendor. Any inspected goods fail for confirm to specification after installation, purchasing department may reject them and the Vendor 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.
- The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- The date on which Acceptance Certificate is issued shall be deemed to be the date of successful Commissioning of the System.
- Any delay by the Vendor in the Acceptance Testing shall render the Vendor liable to the imposition of appropriate Penalties.

● **Service Terms:**

1. The entire scope of the work depends on the technical skill and experience in management of the same level or kind of infrastructure.
2. It is mandatory for successful bidder to deploy the qualified professional to install, commission & maintain the equipments, as defined under scope of work.
3. The successful bidder is free to deploy or to develop applications to facilitate the operation. Purchasing department will welcome the deployment such application in respect to improve Quality of Services.

4. For extending better services to the user, the bidder will be allowed to deploy & use own tested and proven solution, with prior permission from Purchasing department.
 5. The bidder need to manage & maintain various records related to the services extended to the user.
 6. If the network is being operated & maintained by various agencies, then in such circumstances the bidder may need to coordinate and approach various agencies, if required.
 7. The bidder will be responsible to maintain documentation on the progress of the work and will have to update the same on regular basis. Bidder will have to submit the progress reports regularly, to the purchasing department.
 8. The understanding of the comprehensive maintenance under warranty period is as follows.
 - a) In case of failure, 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 Vendor.
 - 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 Vendor 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 Vendor needs to put the same into operation.
- **Project Implementation:**
 1. The selected agency will have to be completed the work which includes Supply, Installation, Testing and Commissioning of hardware and required equipments including LAN & cabling work within 60 working days from date of Purchase Order/ Work Order issued. The bidder has to take the necessary approval of concern authority for Schematics Diagram (Layout) within 15 days for cabling & laying work of Video Surveillance System and complete the work from the remaining 45 days.
 2. The Selected agency will implement the project strictly as per the plan approved by purchasing department. The Vendor shall carry out cabling work at such locations as may be decided by the purchasing department within a specified period as specified in Instruction letter/LOI/Order and complete their provisional Acceptance Test to the satisfaction of purchasing department.
 3. Installation, Commissioning and Acceptance of work will be undertaken by purchasing department/GIL. All Invoices, Vouchers, Bills for supplied goods and services by the Supplier under the scope of the work will be verified measured and accepted by purchasing department for release of payment.
 4. As part of implementation the successful bidder shall provide details of equipment that will be incorporated in the proposed system and material as required. The location for storing spare parts and quantity there on should also be clearly indicated.
 5. The successful bidder shall provide the necessary technical support, Standard Operating Procedure (SOP) and other information to the purchasing department and its user organizations in implementing the proposed system applications. The purchasing department at any time during the currency of the Agreement should have access to the proposed sites.
 6. The successful bidder shall provide training to purchasing department personnel at no cost to purchasing department. The training schedule, content and modalities will be defined jointly by both the parties.
 7. The successful bidder shall arrange to obtain all statutory permission with no cost to purchasing department. The successful bidder may have to work during Holidays and Sundays, according to the urgency of work. The successful bidder will obtain such permission on his own in consultation with purchasing department. It will be the responsibility of the successful bidder to co-ordinate with purchasing department required to execute the job.

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. Successful bidder shall also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.
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.
10. 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 purchasing department.
11. Any damage caused to the property of purchasing department while executing the job shall be solely 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.
12. The successful bidder will have to furnish the documentation of the work undertaken in consultation with purchasing department.
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.
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 Vendor 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 successful bidder.
15. Purchasing department reserve the right to visit any working site of the successful bidder with prior intimation. Successful bidder has to make necessary arrangement for the same.
16. All work shall be performed and executed by the successful bidder in strict conformity with the purchasing department and any relative instruction issued to the Supplier by purchasing department time to time.
17. The purchasing department shall associate few engineers / technicians during installation and commissioning work. Bidder shall ensure proper participation of the nominated personnel from purchasing department and train them on the system related. Also bidder shall organize the systematic training of selected personnel from the purchasing department on the operation / management of equipments.

SECTION III

General Terms & Conditions:

1. The last date of submission of bid on the website <https://gil.nprocure.com> is **17.02.2020 up to 1500 Hrs.** No physical bids will be accepted under normal circumstances. However, GIL reserves the right to ask the bidders to submit the bid and/or any other documents in physical form.
2. The bid is non-transferable.
3. **The Bidder may quote only one option (i.e. only one product can be quoted) against each item.** Bidders are required to mention make & model of the product. (Do not write “OEM” against items as bidders are expected to give make & model of the product).
4. The successful bidder will have to supply & install and provide operational training for supplied hardware and peripherals and carry out necessary integration at end user office locations.
5. If in any case the quoted Item is not available in the market, 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/Purchaser. No “End of Life / End of Support” product should be quoted to minimize such instances. (Make & Model quoted by the bidder should be available till the bid validity, duly supported for spares/OEM support for warranty period).
6. The Bidder shall bear all the costs associated with the preparation and submission of its bid, and GIL in no case will be responsible or liable for these costs, regardless of conduct or outcome of bidding process.
7. Technical specifications indicated are minimum specification. Bidder may quote for better solution. The bidder should provide following with the technical bid:
 - Make & Model
 - Name of Manufacturer
 - Technical Literature
 - Manufacturer’s Data Sheet.
 - Compliance statement from the OEM of the product (with duly signed and stamped)
8. The bidder has to upload the compliance letter on its letter head duly signed by the authorized signature & other supporting documents as asked for in the bid in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.
9. The Bidder has to examine all instructions, forms, terms, conditions and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in rejection of its bid.
10. Amendment of Bidding Documents (Corrigendum)
 - 10.1. At any time prior to the deadline for submission of bids, GIL may, for any reason, whether its own initiative or in response to the clarification request by a prospective bidder, modify the bidding documents.
 - 10.2. The corrigendum will be published on website <https://gil.nprocure.com> & www.gil.gujarat.gov.in.
 - 10.3. In order to allow prospective bidders reasonable time to take into consideration the amendments while preparing their bids GIL, at its discretion, may extend the deadline for the submission of bids.
11. Bid Currency - Prices shall be quoted in Indian Rupees only. Payment for the supply of equipments as specified in the agreement shall be made in Indian Rupees only.

12. The bidder will have to submit Bid Processing Fees (Nonrefundable) of Rs. 17,700/- & Earnest Money Deposit (E.M.D.) of Rs. 10,00,000/- (Rupees Ten Lac Only) (Refundable) on or before date & hours of submission of bid in a sealed cover at GIL office with the heading “Bid processing Fees & EMD for E-tender no. HWT240120609 for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat.”

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Please affix the stamp of your company on the overleaf of demand draft.

Note: Failing to submit physical covers of EMD and Bid Processing Fees at GIL on or before the last date & time of submission as given in this bid, may lead to the rejection of the bid.

13. In case of non-receipt of Bid processing fees & EMD as mentioned above in your bid will be rejected by GIL as non-responsive.
14. Unsuccessful bidder's E.M.D. will be returned as promptly as possible after the expiration of the period of bid validity OR upon the successful Bidder signing the Contract, and furnishing the Performance Bank Guarantee as prescribed by GIL, whichever is earlier.
15. In exceptional circumstances, GIL may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. Bidder may refuse the request without forfeiting its E.M.D. A Bidder granting the request will not be permitted to modify its bid.
16. The Successful bidder has to submit Performance Bank Guarantee @ 10 % of total order value within 15 days from the date of issue of Purchase order **for the duration of contract period + extra 3 months** from 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. The draft of Performance Bank Guarantee is attached herewith.
17. Successful Bidder will have to sign the contract upon receiving the confirmed purchase order with the purchaser(s) within 15 working days from the date of confirmed purchase order. (The draft is attached herewith).
18. The successful Bidder's E.M.D. will be returned upon the Bidder signing the Contract, and furnishing the Performance Bank Guarantee as per bid terms and offer of inspection of the ordered material.
19. The E.M.D. may be forfeited at the discretion of GoG / GIL, on account of one or more of the following reasons:
- (a) If a Bidder withdraws its bid during the period of bid validity.
 - (b) If Bidder does not respond to requests for clarification of their Bid
 - (c) If Bidder fails to co-operate in the Bid evaluation process, and
 - (d) In case of a successful Bidder, if the Bidder fails:
 - (i) To sign the Contract as mentioned above or
 - (ii) To furnish performance bank guarantee as mentioned above or

(iii) If the bidder is found to be involved in fraudulent practices.

20. Termination for Default:

20.1. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder. Bidder will be given notice/cure period of 30 days, after that purchaser will terminate the Contract in whole or part after:

- a) If the bidder fails to deliver any or all of the Goods as per the delivery schedule mentioned in the bid, or within any extension thereof granted by the Purchaser or
- b) If the Bidder fails to perform any other obligation(s) under the Contract/Purchase order.
- c) If the Bidder, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“Corrupt practice” means the offering, giving, receiving or soliciting of anything of value of influence the action of a public official in the procurement process or in contract execution.

“Fraudulent practice: a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;”

20.2. In the event the Purchaser terminates the Contract in whole or in part, pursuant to Clause 20.1 above, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Bidder shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Bidder shall continue the performance of the contract to the extent not terminated.

21. If the successful bidder fails to submit the Performance Bank Guarantee & sign the Contract Form within prescribed time limit, the EMD of the successful bidder will be forfeited. GIL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists.

22. Price shall be inclusive of all packing, freight, forwarding, transit insurance, installation, warranty and maintenance charges. GST needs to be shown separately as per financial bid format.

23. Prices shall be in Indian Rupees. The prices shall strictly be submitted in the given format. Quoted prices shall be inclusive of all taxes except GST. The tax components like GST as applicable shall be mentioned separately in the respective columns.

24. Late Bids: The bidder will not be able to submit the bid after final submission date and time.

25. Modification and Withdrawal of Bids

25.1. The Bidder may modify or withdraw its bid before the due date of bid submission.

25.2. No bid will be allowed to be modified subsequent to the final submission of bids.

25.3. No bid will be allowed to be withdrawn in the interval between the deadline for submission of bids and the expiry of the bid validity. Withdrawal of a bid during this interval will result in the forfeiture of bidder’s E.M.D.

26. Bids will be opened with the buyer’s private digital key in the presence of Bidder’s representatives, who choose to attend. The Bidder’s representatives who are present shall sign a register/attendance sheet evidencing their attendance. 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 bid process. In the absence of the bidder(s), the Tender Committee may choose to open the bids as per the prescribed schedule.

27. The Bidder’s names, Bid modifications or withdrawals, discounts and the presence or absence of relevant E.M.D. and such other details as GIL/GoG officer(s) at their discretion, may consider appropriate, will be announced at the opening.

28. **Evaluation of the Bids:** After the closing time of submission, GIL / GoG committee will verify the submission of Bid Processing Fees & EMD as per bid terms and conditions. The eligibility criteria evaluation will be carried out of the responsive bids. The technical bids of the bidders who are complying with all the eligibility criteria will be opened and evaluated next. If required GIL will ask for

- additional clarifications on eligibility & technical section and ask for the demonstration of the quoted equipment(s). After this, 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 with warranty and then called for further negotiations if required.
29. As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No. ITS/10/2015/5284/IT dated 6th June, 2016 issued by Department of Science & Technology; in e-Governance project undertaken by Government Departments or its Boards, Corporations or parastatal bodies getting grants from the Government, the chosen solution provider or system integrator will pass on job work or will outsource part of the work of a value ranging between 5% to 10% of the contract value to the eligible start-ups and to students of shortlisted Technical Colleges in Gujarat. In such arrangements, the responsibility of meeting SLAs (Service Level Agreements) will continue to belong to the solution provider or the system integrator.
30. The bidder will have to offer the inspection in the manner as decided by GIL before delivering to the respective site or at customer sites. The cost of the same has to be borne by the supplier. Any deviation found in the specification of the produced goods from the bid specification will lead to the cancellation of the order, forfeiture of EMD/PBG and prohibition in the participation in the future purchase of Government of Gujarat. GIL/GoG will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found at the time of inspection and the bidder has to deliver and install the ordered goods within prescribed time limit. At the time of inspection, bidder is required to produce OEM's confirmation on OEM's letter head for back to back warranty support as per tender terms & conditions.
31. The Indenter's right to inspect, test and, where necessary, reject the Goods after the Goods arrival at Customer Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
32. **Delivery & Installation:** Within **90 working days** from the date of purchase order at respective site / locations. The bidder has to take the necessary approval of concern authority for Schematics Diagram (Layout) within 15 days for cabling & laying work of Video Surveillance System and complete the installation within the remaining 75 days.
33. In case of successful bidder is found in breach of any condition(s) of bid or supply order/work order, at any stage during the course of supply / installation or warranty period, the legal action as per rules/laws, shall be initiated against the successful bidder and EMD/PBG shall be forfeited, besides debarring and blacklisting the bidder concerned for the time period as decided by Govt., for further dealings with GoG.
34. Bid validity will be of **180 days after the date of financial bid opening**. A bid valid for shorter period shall be rejected as non-responsive. **If required, GIL may extend the bid validity for further period from the date of expiry of bid validity in consultation with the successful bidder.**
35. Bidders are required to quote all items including optional add-ons as well. Incomplete bids will be treated as non-responsive and will be rejected.
36. The successful Bidder will be required to co-ordinate with software vendor and/or do liaisoning with other service provider to achieve the end-to-end connectivity. This also includes OS configuration with respect to LAN/WAN technologies implementation.
37. **Duration of the Contract:** The duration of the Contract period for this will be of 5 years. 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 of hardware and software & completion of deployment as per the bid scope.
38. **Warranty**
- 38.1. **Warranty:** Comprehensive onsite warranty of 5 Years from the date of installation of procured equipments.
- 38.2. Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipments within 48 hrs.
- 38.3. If any equipment becomes faulty for 3 times in one month during the warranty period, the bidder shall replace the same with new equipments of same or higher capability without any additional cost to the purchaser.

- 38.4. If any manufacturing or other technical defects are found within the warranty period, the same will have to be replaced or rectified free of cost by the bidder.
- 38.5. Maintenance service: Free maintenance services shall be provided by the Bidder during the period of warranty.
- 38.6. In case, bidder does not provide satisfactory support & does unwarranted delay in providing warranty support, Government offices reserves right to repair the equipment at risk & cost of the bidder.

39. Penalty Clause

39.1. Penalties for delay in delivery and installation:

- a) If the bidder fails to deliver and install the requisite hardware and software within **90 working days** from the issue of the confirmed purchase order, then a sum equivalent to two percent (2 %) of the value of the undelivered / uninstalled equipment i.e. due for delivery & installation as per given schedule will be deducted from the payment and the value shall be deducted from the payment for each calendar week of delay or part thereof.
- b) The amount of penalties for delay in delivery and installation shall be subject to a maximum limit of 10% of the total contract value.
- c) Delay in excess of 8 weeks (after due date of delivery and installation) will be sufficient to cause for termination of the contract. In that case the Performance Bank Guarantee of the bidder will be forfeited.
- d) In case, the selected bidder does not supply the ordered items for any reason, he will be liable to pay the difference amount to the purchaser, over and above the Performance Guarantee, which indenter departments\Boards\Corporations have to pay to the next or other selected bidder for purpose of the said items.

39.2. Operational / Warranty period Penalties:

- a) During warranty period, if the complaint is not resolved within 48 hrs, the penalty of Rs. 500 per day will be levied for Camera, NVR, Switch and UPS & within 72 hrs for networking components and other peripherals, the penalty of Rs. 300 per day will be levied. However, if the complaints not resolved within 7 days then from 8th day to 14th day, penalty would be levied @ 150% and from 15th day onwards penalty @ 200% of the above rates would be levied. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.
- b) In case of major failure happens due to which services may be effecting for longer period, the bidder will be required to an immediate alternate arrangement of the same till it is repaired. Failure to arrange for the immediate repair/replacement will be liable for penalty of Rs. 500 per day for Camera, NVR, Switch and UPS, and Rs. 300 per day for networking components and other peripherals. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.
- c) The amount of Operational/Warranty period Penalty shall be subject to a maximum limit of 10% of the total contract value.
- d) Successful bidder should submit the Performance Bank Guarantee @ 10% of total order value for the duration of warranty period + extra 3 months as per bid requirements. In any case, bidder is required to maintain 10% PBG at all time during the period of contract. In case of any penalty claimed from the submitted PBG during the contract period, the successful bidder is required to submit the additional PBG of the amount equal to the penalty claimed for the duration up to the validity of original Bank Guarantee. For example, "X" amount of penalty will be claimed during the 5th month of contract period, then bidder is required to submit the additional PBG of "X" amount for the period of 34 months i.e. 39 months - 5 months.

40. Payment: Payment for Goods and Services shall be made by Purchasing Department in Indian Rupees as follows:

- 40.1. No advance payment will be made.
- 40.2. 50 % payment will be made after Delivery of all hardware and related peripherals at site. The inspection will be done by GIL.
- 40.3. 30 % payment will be made after Installation and Completion of Work & Acceptance Test.

- 40.4. Remaining 20 % payment will be made after 90 days from completion of the work and training to personnel from respective office.
41. GIL reserves the right to change any bid condition of any item even after inviting the bids, with/without prior notification.
42. GoG / GIL's Right to accept any Bid and to reject any or all Bids – GoG / GIL reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to awarding the Contracts, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for such decision.
43. GIL / Purchaser shall not be bound by any printed conditions or provisions in the Bidder's Bid submission.
44. The quantity mentioned in the bid are estimated based on the receipt of the requirement from Indenting Department. The quantities may decrease up to 50% of the bid quantity or increase up to 30% of the bid quantity within the period of the bid validity, depending upon the change in the requirements/grants available with the purchaser(s), which shall be binding to the bidder.
45. **Limitation of Vendor's Liability:** Vendor's cumulative liability for its obligations under the contract shall not exceed the contract value and the vendor shall not be liable for incidental, consequential, or indirect damages including loss of profit or saving.
46. All correction/addition/deletion shall require authorized countersign.
47. Force Majeure Shall mean and be limited to the following:
- Fire, explosion, cyclone, earthquake, flood, tempest, lightening or other natural physical disaster;
 - War / hostilities, revolution, acts of public enemies, blockage or embargo;
 - Any law, order, Riot or Civil commotion, proclamation, ordinance, demand or requirements of any Government or authority or representative of any such Government including restrictive trade practices or regulations;
 - Strikes, shutdowns or labor disputes which are not instigated for the purpose of avoiding obligations herein, or;
 - Restrictions imposed by the Government or other statutory bodies which prevents or delays the execution of the order;
 - Any other circumstances beyond the control of the party affected;

The BIDDER shall intimate Purchaser by a registered letter duly certified by the local statutory authorities, the beginning and end of the above causes of delay within seven (7) days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting over two months, if arising out of causes of Force Majeure, Purchaser reserves the right to cancel the order.

Delivery & Installation period may be extended due to circumstances relating to Force Majeure by the Purchaser. Bidder shall not claim any further extension for delivery & installation or completion of work. Purchase / GoG shall not be liable to pay extra costs under any circumstances.

The BIDDER shall categorically specify the extent of Force Majeure conditions prevalent in their works at the time of submitting their bid and whether the same have been taken in to consideration or not in their quotations. In the event of any Force Majeure cause, the BIDDER shall not be liable for delays in performing their obligations under this order and the delivery dates can be extended to the BIDDER without being subject to price reduction for delayed deliverables, as stated elsewhere.

It will be prerogative of Purchaser / GoG to take the decision on force major conditions and Purchaser decision will be binding to the bidder.

48. **The Clarifications if any should be submitted in writing to GIL at least on or before 2 days of pre-bid meeting date. Thereafter the clarifications received from the bidders will not be entertained**

Your bid should be submitted on website <https://gil.nprocure.com> on or before **15:00 Hours, 17.02.2020.**

Proposals after due time period will not be accepted.

The Technical Bids will be opened on 17.02.2020 **at 17:00 Hours at GIL, Block No. 2, 2nd Floor, Karmayogi Bhavan, Sector-10 A, Gandhinagar** in the presence of the committee members and representatives of the bidders, who have submitted valid bids. Only one representative from each bidder will be allowed to attend the tender opening. 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.

Please address all queries and correspondence to

Vivek Upadhyay, DGM (Tech.),
Gujarat Informatics Limited,
Block No. 2, 2nd Floor, Karmayogi Bhavan,
Sector-10A, Gandhinagar 382 010
Phone No. 079-23259239
E-mail: viveku@gujarat.gov.in, vipulp@gujarat.gov.in

Fax / Email should be followed by post confirmation copy.

SECTION IV

Minimum Technical Specification

Item no. 1: Indoor Dome 2MP IP Camera			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
1	Image sensor : 1/3" Progressive Scan CMOS 2 MP or betters		
	Indoor Dome 2MP IP Camera with Internal microphone for audio recording		
	Lens: 2.8 to 12 mm or better, DC-iris, motorized		
	Day and Night: Automatic/manual/scheduled		
	IR Range: Min 30 Mtr or better		
	WDR: True WDR >=120 db		
	Min. Illumination / Light Sensitivity: Color mode: F1.2 @ 0.5 lux and B&W mode: F1.2@ 0.01 lux		
	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.		
	Video Compression: H.264, H. 265, H.265+		
	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast		
	Intelligent Video: Motion Detection, Camera Tampering Trip wire, Perimeter intrusion detection, HLC, Corridor mode.		
	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)		
	Protocol Support: Ipv4, Ipv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project		
	Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support, Should support 2 way Audio and should support 1 port Alarm Input, 1 port Alarm output		
	Camera Should remote Zoom and Auto focus		
	Camera should supplied with 32GB Micro SD/SDHC /SDXC memory card for recording		
	IP 66 and IK 10 Rated housing		
Should be ONVIF compliant			
Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding, The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing.			
Operating Temperature: 0-50 °C			

Item no. 2: Outdoor Bullet 2MP IP Camera			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
2	Image sensor : 1/3" Progressive Scan CMOS 2 MP or betters		
	Lens: : 2.8 to 12 mm or better, DC-iris, motorized Zoom		
	Day and Night: Automatic/manual/scheduled		

IR Range: Min 50 Mtr or better		
WDR: True WDR >=120 db or better		
Min. Illumination / Light Sensitivity: Color mode: F1.2 @ 0.5 lux and B&W mode: F1.2@ 0.01 lux		
Light sensor: Senses the level of ambient light to determine when to switch day/night mode.		
Video Compression: H.264, H. 265, H.265+		
Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast		
Intelligent Video: Motion Detection, Camera Tampering, Trip wire, Perimeter intrusion detection, HLC, Corridor mode		
Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)		
Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project		
Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support, Should support 2 way Audio and should support 1 port Alarm Input, 1 port Alarm output		
Camera Should remote Zoom and Auto focus		
Camera should supplied with 32GB Micro SD/SDHC/SDXC memory card for recording		
IP 66 Rated housing		
Should be ONVIF compliant		
Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
Operating Temperature: 0-55 °C, should have sun shield on top of the camera enclosure		
Should be supplied with suitable mounting box, L/C Bracket		

Item no.: 3 : 16 CH Network Video Recorder			
Sr. No	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
3	16 Channels or better NVR with supports up to 4 SATA hard drives each support up to 8TB, Should be loaded with 16 TB Capacity of HDDs.		
	Support 4K streaming, Support 16 Channel up to (3840*2160) Resolution Support 250 Mbps or higher of incoming Bandwidth		
	Support MJPEG, H.264 and H.265, H.265+		
	1# of Fast Ethernet port		
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
	VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup		
	Should support 16 Channels streaming in Single screen, 08 Channels synchronous Playback		
	Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
	NVR and IP CCTV camera should be same make		

Item no.: 4 : 32 CH Network Video Recorder			
Sr. No	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
4	32 Channels or better NVR with supports up to 8 SATA hard drives each support up to 8TB, Should be loaded with 24 TB Capacity of HDDs. Should support Raid 0,1,5,6,10 support		
	Support 4K streaming, Support 32 Channel up to (3840*2160) Resolution Support 300 Mbps of incoming Bandwidth, support e-sata and USB		
	Support MJPEG, H.264 and H.265, H.265+		
	2# of Gigabit port with load balancing and failover		
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
	VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup		
	Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback		
	Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
	NVR and IP CCTV camera should be same make		

Item no.: 5: 64 CH Network Video Recorder			
Sr. No	Item (Minimum Specification)	Matched / Not Matched	Deviation / Remarks, (if any)
5	64 Channels or better NVR with supports up to 8 SATA hard drives each support up to 8TB, Should be loaded with 64 TB Capacity of HDDs. Should support Raid 0,1,5,6, 10 support		
	Support 4K streaming, Support 64 Channel up to (3840*2160) Resolution Support 300 Mbps of incoming Bandwidth, support e-sata and USB		
	Support H.264, H.265 and H.265+		
	2# of Gigabit port with load balancing and failover		
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
	Interface: 3 USB, 2 HDMI, 1 VGA , 8 SATA, 08 CH Alarm in, 4 CH Alarm out, 1 CH Audio In, 1 CH Audio out, VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup, Rack mountable		
	Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback		
	Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
	NVR and IP CCTV camera should be same make		

Item no.: 6 : 128 CH Network Video Recorder			
Sr. No	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
6	128 Channels or better NVR with supports up to 16 SATA hard drives each support up to 8TB, Should be loaded with 96 TB Capacity of HDDs. Should		

support Raid 0,1,5, 6, 10 support		
Support 4K streaming, Support 128 Channel up to (3840*2160) Resolution Support 400 Mbps of incoming Bandwidth, support e-sata and USB		
Support H.264, H.265 and H.265+		
2# of Gigabit port with load balancing and failover		
Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,		
Interface: 3 USB, 2 HDMI, 1 VGA , 8 SATA, 08 CH Alarm in, 4 CH Alarm out, 1 CH Audio In, 1 CH Audio out, VGA D-sub and HDMI, 2 nos. of USB port, Should support Network storage and backup, Rack mountable		
Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback		
Certification- CE or FCC and ETL/ UL and BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		
NVR and IP CCTV camera should be same make		

Item no. 7: 8 port PoE Layer-2 Network Switch

Sr. No	Item (Minimum Specification)
1	a) Switch should have minimum 8 # 10/100/1000 Base-Tx PoE ports Duplex, Full, Half . b) Min. 2 nos. of SFP ports (Unpopulated). c) Switch PoE power rating should be 120W for 8 Port
2	Should have minimum switching capacity as per the proposed switch and solution requirement.
3	Should be IPv4 and IPv6 ready from day one
4	Should have IGMP snooping v1 &2 supporting min 100 multicast groups
5	Should support protocols like MSTP, STP, RSTP, dot1q VLAN-tagging, IEEE 802.3ad, NTP
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	Should have console port for administration & management, CLI and web-based GUI for easy Management
11	Port Security to secure the access to a port based on the MAC address of a user's device. The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.
12	Multilevel security on console access to prevent unauthorized users from altering the switch Configuration.
13	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
14	Duplicate address detection (DAD)
15	Operating Temperature: 0 ° C to 50 ° C
16	10 % to 90 % RH, non-condensing
17	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord
18	Certification:- CE, FCC, UL/BIS certified at the time of bidding, All types of Switches and SPF modules should be form same OEM

Item no. 8: 24 port Layer-2 Network Switch

Sr. No.	Item (Minimum Specification)
1	a) Switch should have minimum 24 # 1 G SFP Port . b) Min. 4 nos. of SFP+ ports. c) Minimum 8 10/100/1000 Base-T combo Ports (should be out of 24 # 1 G SFP Port or additional)
2	Should have minimum switching capacity as per the proposed switch and solution requirement.
3	Should be IPv4 and IPv6 ready from day one
4	Should have IGMP snooping v1 &2 supporting min 100 multicast groups
5	Should support protocols like MSTP, STP, RSTP, dot1q VLAN-tagging, IEEE 802.3ad, NTP
6	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN, with multiple uplinks. Should support Inter-Vlan routing
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	Should have console port for administration & management, CLI and web-based GUI for easy Management
11	Port Security to secure the access to a port based on the MAC address of a user's device. The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.
12	Multilevel security on console access to prevent unauthorized users from altering the switch Configuration.
13	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
14	Duplicate address detection (DAD)
15	Operating Temperature: 0 ° C to 50 ° C
16	10 % to 90 % RH, non-condensing
17	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord
18	Certification:- CE, FCC, UL/BIS certified at the time of bidding, All types of Switches and SPF modules should be form same OEM

Item no.: 9 - 55" or higher LED Display unit				
Sr. No.	Features	Item (Minimum Specification)	Matched/Not Matched	Deviation/Remarks, (if any)
9	Diagonal Screen Size	55" or higher		
	Panel Type	LED		
	Resolution	1920 x 1080 or higher		
	Brightness	300 nit or better		
	Contrast Ratio	1000:1 or higher		
	Input & Output	PC input (D-sub)-1/ HDMI-1, Audio in, USB		
		The quoted display should run 16 X 7 without any problem		
	Accessories	Power cable, VGA cable, (Please mention the length of the cables) Wall mount kit, Quick Setup Guide, Warranty Card, Application CD, Remote		

	Control with Batteries		
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Item no. 10: 1 KVA Online UPS (with 30 Minutes battery backup)				
Sr. No.	Item (Minimum Specification)		Matched/ Not Matched	Remarks (if any)
10	General	Online UPS with PWM Technology suitable for single Phase AC input voltage		
		UPS shall be housed in rugged enclosure made of M.S. Sheet 1.2 mm (minimum) thick, aesthetically finished, duly pre-treated and powder coated.		
		UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional		
		Enclosures shall conform to protection requirement of IP2L1 to ISI:3947 (Part 1)/1993 (reaffirmed 1998)		
	Certifications	UPS should meet CE and ROHS standards (Pls. submit certificates along with bid)		
	Bypass Switch	Manual and Static by-pass switch shall be provided for maintenance of UPS with provision for Enable/Disable of Bypass mode		
		UPS shall supply output power and charging current at the same time		
	Switching Device	Switching Device shall be IGBT		
		Switching frequency shall be 19 KHz or above		
		UPS shall be provided with USB & serial communication port RS 232 for computer interface for data exchange of electrical parameters of UPS like voltage, current, frequency, charging status, mode of operation etc.		
	Rating	The rating specified is a unity power factor		
	INPUT			
	Voltage Range	160 V – 280 V		
	Frequency Range	50 Hz +/- 10% Hz		
	Phase	Single Phase AC		
	OUTPUT			
	Voltage Regulation	230 V +/-2% (with alternative setting for 220V +/- 2%)		
	Output Frequency	50 Hz +/- 1 Hz Single Phase (In inverter mode)		
	Voltage regulation	From on load to full load Should be within +/-1% in both the cases, UPS shall also have facility for operation in synchronous mode in which output frequency shall be same as that of mains frequency		
	Harmonic Distortion	3% max. for 1 KVA on resistive load		
Efficiency	At rated Output voltage and Frequency			
Overall	85% (min)			
Power Factor				

Load Power Factor	Better than 0.65 lagging		
UPS power factor	Better than 0.9 lagging		
Over load	1 KVA UPS: UPS shall withstand 10% overload for 1 min & 25% overload for 30 sec		
ENVIRONMENT	Noise Level – less than 55 db at a distance of 1 meter		
Protection	Over voltage, short circuit and overload at UPS output terminal, Under voltage at battery terminal, Overshoot and undershoot shall not be greater than 4% of rated voltage for duration of 60 msec		
Indicators	Mains Presence, Battery Charging and Discharging, Low battery voltage		
Digital meters	“Input AC Voltage, Output AC Voltage, I/o Frequency, O/p Frequency, Output Current, Battery Voltage, Load Percentage, Battery Backup available in percentage, (with LED \ LCD display)”		
Misc	ECO Mode Operation with Enable/Disable function		
	Emergency Power Off (EPO)		
	UPS to be compatible with DG supply		
	Cables : With all necessary cables and plug and Battery links		
	Rack: Suitable Metallic Rack for housing of SMF Batteries to be provided		
Battery Detail	800 VAH for 1 KVA - 30 min		
Battery Type	Sealed Maintenance Free (VRLA)		
Battery Make	Exide/Quanta/CSB/Panasonic/Yuasa (Battery Sr. No on OEM Letter Head with Warranty Assurance of 1 years)		
	The Manufacturer of the product (OEM) should be ISO 9001:2008 Process Certified for manufacturing		

Item No. 11: 600 VA Line Interactive UPS (with 15 minutes Battery backup)				
Sr. No.	Item (Minimum Specification)		Matched/ Not Matched	Deviation / Remarks, (if any)
11	Features	Description		
	General	Single Phase Input & Single Phase Output		
		Line Interactive UPS with AVR & PWM Technology for computers suitable for single Phase AC input voltage		
		UPS shall be housed in rugged enclosure made of M.S. Sheet 1.2 mm (minimum) thick, aesthetically finished, duly pre-treated and powder coated or ABS body.		
		UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional		
	Switching Device	Switching Device shall be MOSFET or IGBT		
		Switching frequency shall be above 50 Hz		
Transfer time	Switching over time from AC mains to UPS mode on power failure shall be Max. 10 milliseconds			

Input	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC		
Output			
AC Mode	AVR Output voltage in AC mode; 180-255 V ; 50 Hz +/- 3 Hz		
Battery Mode	UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/- 3 Hz load power factor of not less than 0.6 lagging		
Overload	UPS shall withstand 5% overload		
Protections	If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode		
	Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start		
	Under voltage at battery terminal, Battery over charge		
Indicators and meters	Mains presence, UPS mode, Battery low, overload		
Battery details			
Battery Type	Sealed Maintenance Free (VRLA) Built-in		
Battery make	Exide/Quanta/CSB/Panasonic /Yuasa(Battery Sr. No on OEM Letter Head with Warranty Assurance of 1 years)		
Minimum Battery AH	600 VA UPS – 84 VAH – 15 minutes Battery Back Up		

Item No. 12: 12 U Rack

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
12	12 U wall mounting rack – Rigid frame that can be fixed to the wall, 19” Adjustable rails in the front and rear, 600mm Depth, Front section with glass door and lock, Top and bottom cable entry facility, The quoted PoE port Switch(s) and NVR should be mount in the Rack, Cable managers, Earth continuity kit, Powder coated cabinet (Bidder has to carry out installation/fixing)		

Item No. 13: 24 U Rack

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
13	24 U Floor standing rack – Rigid frame that can be fixed to the wall, 19” Adjustable rails in the front and rear, 800mm Depth, Front section with glass door and lock, Top and bottom cable entry facility, The quoted PoE port Switch(s) and NVR should be mount in the Rack, Cable managers, Earth continuity kit, Powder coated cabinet (Bidder has to carry out installation/fixing)		

Item No.14: 8 Port Cat-6 Jack / Patch Panel with I/Os

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
14	Category Cat 6, No. of Ports 08 Ports, Features I/Os Individually replaceable Built-in Shutter Rear Cable Manager, Rack Mountable		

Item No.15: 24 Port Cat-6 Jack / Patch Panel with I/Os

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)

15	Category Cat 6, No. of Ports 24 Ports, Features I/Os Individually replaceable Built-in Shutter Rear Cable Manager, Rack Mountable		
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Item No. 16: 3 feet Cat-6 Factory Crimped Patch Cord			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
16	Factory Crimped Cat6 UTP Patch cord with 24 AWG 7/32 Round stranded copper wire. Length- 3 feet.		

Item No. 17: Mount Box at Camera End			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
17	Mount/Junction Box at Camera End (should be Suitable for quoted IP camera)		

Item No. 18: Cat 6 UTP Cable			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
18	Category Cat6 Conductor 23AWG, Solid Bare Electrolytic Grade Copper Outer Sheath FRPVC Insulation HDPE Splitter X-Shaped Spine separator Tested Frequency 250Mhz Standards		

Item No 19 : 6 Core Single Mode Fiber Cable			
Sr. No.	Item (Minimum Specification)	Matched/Not Matched	Remarks, (if any)
19	6 core Fiber Cables to be supplied		
	Single Mode Fiber to support 1310 nm and 1550 nm wavelengths, 9/125 micron,		
	Graded index, anti-rodent, fiber Should be protected inside jelly filled loose tube armoring with acrylic coated good quality steel.		
	ECCS armor followed by a jacket of polyethylene. Over the armor, water blocking powder applied for water tight cable.		
	Steel rods embedded in the outer jacket.		

Item No 20: 12 Port Fiber LIU fully Loaded with Adapter, Pigtail				
Sr. No.	Item (Minimum Specification)		Matched/Not Matched	Remarks, (if any)
20	Type	19" Rack mount with 1 U height, 1. Port Availability 12 Port or higher Should have slots on front panel to accommodate SC type Adapter Plates Should have splicing tray and mounting clamps Made up of powder coated steel. Provision for entry 4 nos.		
	Pigtail	Connector Type: - SC-Style 12 nos. of pigtail must be included		
	adaptor	Duplex SC Adaptor Dust caps for protection 12 nos. of adaptor must be included		

Item No. 21 Surge Protection Power Strip				
Sr. No.	Parameter	Minimum Specification	Matched/Not Matched	Remarks (if any)
21	Clamping Voltage	240 V		
	Response time	<10 ns		
	Energy Dissipation	Min 500 joules		
	Max voltage Spike protection	Up to 400 Volts		
	Max current Spike Protection	5000 Amps		
	Cable	Heavy duty Cable of standard Length		
	Power Outlet	Min. 4 Nos. 5 Amp Indian Standard Power Outlets		
	Operating Temperature	0-55 ° C. The bidder has to take into consideration of the internal temperature adjustment of the junction box		

Item No. 22: 1.5" Size PVC Pipe			
Sr. No.	Item (Minimum Specification)	Matched/Not Matched	Remarks (if any)
22	1.5" PVC Pipe (ISI Mark) (In mtrs.) including Labor Charges		

Item No. 23: 32 MM ISI mark HDPE Pipe			
Sr. No.	Item (Minimum Specification)	Matched/Not Matched	Remarks (if any)
23	32 MM ISI mark HDPE Pipe for Fiber Cable (In mtrs.) including Labor Charges		

Item No. 24: 25mm GI Pipe (in meter)			
Sr. No.	Item (Minimum Specification)	Matched/Not Matched	Remarks (if any)
24	25mm GI Pipe (In mtrs.) including Labor Charges		

Item No. 25: 3 core 2.5 sq mm Armed Power copper Cable (in meter)			
Sr. No.	Item (Minimum Specification)	Matched/Not Matched	Remarks (if any)
25	3 core 2.5 sq mm Armed Power copper Cable including Necessary Electrification work		

Item 26. Poles including mounting/installation				
Sr. No.	Parameter	Minimum Required Specifications	Matched/Not Matched	Remarks (if any)
26	Pole type	Galvanized pole as per IS:2629 and Fabrication as per IS:2713		
	Height	6 meter above ground surface Bottom section : 1.4 meter Middle Section : 1.4 meter Top Section : 3.2 meter		
	Foundation	Minimum 1 meter so as to ensure that video feed quality is not impacted due to winds in different climatic conditions and from vibration caused due to		

		heavy vehicles on road		
	Pole Diameter (Outer side)	Bottom section : 97.9mm Middle Section : 76.2mm Top Section : 65.2mm		
	Bottom Base Plate	300mm x 300mm x 6mm		
	Protection	Lightening arrestor and Earthing		
	Cantilevers	The pole should support 3 number of cantilever of varying length from 0.5 to 2.0 meters. The cantilever should be fitted such that the can be rotated to change the direction or adjust the angle, if at all required. The Cantilever should be strong enough so as to mount at least 2 CCTV camera's, if required.		
	Mounting Facility	Should support pole, cantilever, Junction Box		

Item No. 27: High end Desktop for Video Monitoring software			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Deviation/ Remarks, (if any)
27	CPU: Processor 3.0 GHz or higher, Intel core i7 Motherboard with Intel Chipset RAM: 16 GB/ 8GB *2 must be loaded, should be scalable up to 32GB, HDD: 1 TB or higher SATA hard disk with 7200 rpm Should have minimum 4 USB ports Should be loaded with power supply Should have 6 GB Graphics card or better O.S.: Pre-loaded Microsoft Windows 10 Professional licensed software with latest updates and Restore/ Recovery CD/ Self Mechanism Should have a USB keyboard and mouse Should be loaded with an DVD drive 18.5" or higher wide screen LED Backlit based TFT Monitor Bidder has to supply client/video monitoring software along with desktop.		

Item No. 28: Central Video Management Software for Command Control Center				
Sr. No.	Item (Minimum Specification)		Matched/Not Matched	Remarks, (if any)
28	IP Camera Central video management Software			
	Features	Description		
	General	OS Support: Microsoft Windows® XP, Windows® 2003, Windows® 2008 R2, Windows® Vista, Windows® 7. User Management: Admin, Guest. Management screen: Lock, unlock with password support. Support E-map		
	Control	Full screen view enable/disable Camera connect/ disconnect Support Auto sequence		

Channels	Channel: 1442 Channels support or more Maximum FPS per channel: 30 FPS Compression Format : H.264, MJPEG		
Display Mode	Screen Display: 32/64 Time: Real time clock with day, date, time, year. Display mode: 1, 4, 9, 16, 32/64 split screen matrix. Layout: Matrix view layout setup Full screen display: All display mode		
Protocols	HTTP, TCP, UDP, RTSP, Multicast.		
Tools	The software should support existing IP Cameras installed and should able to display all in same screen.		
Compatibility	Compatible with 3 rd party IP cameras Widescreen Support SDK integration		

Item No. 29: 42 U Rack for Command Control Center			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
29	42 U Floor standing rack – Rigid frame that can be fixed to the wall, 19” Adjustable rails in the front and rear, 1000mm Depth, Front section with glass door and lock, Top and bottom cable entry facility, The quoted PoE port Switch(s) and NVR should be mount in the Rack, Cable managers, Earth continuity kit, Powder coated cabinet (Bidder has to carry out installation/fixing)		

Item no. 30: 24 port Layer-3 Network Switch for Command Control Center			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
30	Minimum Shall support 8# 10/100/1000 Mbps Base-T, 24# SFP+ 10G Fiber Ports, 2# 40G QSFP fiber slot, 1No of 40G QSFP SM 20KM Module and 3Mtr Fiber Patch cord should be supplied along with switch 24# 10/100/1000 Mbps Base-T POE Ports, 4# SFP+ 10G Fiber Ports 1No of 1G SFP Modules with SM 20KM Support along with supporting fiber patch cord 3mtr length should be included Per Switch. RJ45/micro USB console port, SNMP v2 and v3, LACP, Multicast routing, PIM-SM, PIM-DM, IGMP v1/v2/v3, DVMRP, 4K Vlan, built-in Power supply RPS Power Supply support Should support 1+1 AC/DC Power Supply Redundancy,, Rack mountable, CE, FCC. The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing		

Item no. 31: Fiber channel Dual Controller storage for Command Control Center			
Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
31	Data storage Configurable 19” rack mountable each 3U chassis 6Gb SAS and iSCSI target device Network attached storage/FC iSCSI solution for a flexible and expandable solution		
	Supports 6Gbps & 3Gbps SAS, NL SAS & Enterprise SATA Hard drives simultaneously		
	Supports SNMP/email notification and auto system log information from USB port		
	Storage The storage system will have total of 300TB actual Storage		

Space after Raid 60 configuration, support minimum 300 TB via single ISCSI		
The additional enclosures also will be with dual controller cards and 2+1 Redundant power supplies.		
The system should able to scalable up to 110 Hard drives or 1PB Storage in single architecture		
System can support Hardware RAID levels 0,1,10,3,5,6,30,50,60.		
Battery Backup Unit Support for power shortage		
The Complete system is High availability design with dual hot swappable controller cards		
Support 64 bit 6 core or better CPU support per controller, DDR3 64G data cache Loaded (32G per controller), 3# hot swappable redundant Power supply unit, 2# rear redundant hot swappable Fans, Internal environmental status monitoring		
Virtualization features support like VMware, Citrix, Hyper-V and Data Core		
Interface support - 4# 10GSFP+ slots and 8# 1G BASE-T (2# 10G SFP+ & 4# 1G per controller),		
Networking support for NIC Trunking/load balance/fail over/802.3ad, DHCP server/DHCP client, WINS server and Internet gateway.		
Protocol support for TCP/IP, SMB/CIFS, NFS, SNMP v1/v2c/v3, FTP, HTTP, HTTPS, Telnet, SSH, AFP, WebDAV. Support OS for 2003 / Vista /2008, Unix / Linux and Mac.		
User accounts Microsoft Active Directory Authentication, Network Information Service, Batch creation of users/group, user quota management, share level and file level security with access control list setting.		
Up to 100K domain account support, up to 1K concurrent sessions support		
Security and data protection Support like online Raid level migration/reconfiguration, online volume copy, Advance Battery Flash Backup		
Backup Server, Share Disk Clone, Remote Replication, Online Recovery, File Backup/Restore		
Application Mode like Buffer Management to benefit for more cameras supported, Less Frame Drop and Sequential Design Recording		
Data Protection Features like Faultless Rebuild to reduces Raid rebuilding time, online LUN clone to have multiple data copies		
Certification- CE or FCC and UL/ETL, BIS certified at the time of bidding The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing.		

Item no. 32: 5KVA Online UPS (with 1 hour battery backup)				
Sr. No.	Item (Minimum Specification)		Matched/ Not Matched	Remarks (if any)
32		Online UPS with PWM Technology suitable for single Phase AC input voltage		
		UPS shall be housed in rugged enclosure made of M.S. Sheet 1.2 mm (minimum) thick, aesthetically finished, duly pre-treated and powder coated.		
		UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burs etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional		

	Enclosures shall conform to protection requirement of IP2L1/IP20 to ISI:3947 (Part 1)/1993 (reaffirmed 1998)		
Certifications	UPS should meet CE and ROHS standards (Pls submit certificates along with bid)		
Bypass Switch	Manual and Static by-pass switch shall be provided for maintenance of UPS with provision for Enable/Disable of Bypass mode		
	UPS shall supply output power and charging current at the same time		
Switching Device	Switching Device shall be IGBT		
	Switching frequency shall be 19 KHz or above		
	UPS shall be provided with USB & serial communication port RS 232 for computer interface for data exchange of electrical parameters of UPS like voltage, current, frequency, charging status, mode of operation etc.		
Rating	The rating specified is a unity power factor		
INPUT			
Voltage Range	160 V – 280 V		
Frequency Range	50 Hz +/- 10% Hz		
Phase	Single Phase AC		
OUTPUT			
Voltage Regulation	230 V +/-2% (with alternative setting for 220V +/-2%)		
Output Frequency	50 Hz +/- 1 Hz Single Phase (In inverter mode)		
Voltage regulation	From on load to full load Should be within +/-1% in both the cases, UPS shall also have facility for operation in synchronous mode in which output frequency shall be same as that of mains frequency		
Harmonic Distortion	3% max. for 5 KVA on resistive load		
Communication	Fully functional SNMP card required; RS 232 & USB port with software for UPS status monitoring		
Efficiency	At rated Output voltage and Frequency		
Inverter	83% (min)		
Overall	85% (min)		
Power Factor			
Load Power Factor	Better than 0.65 lagging		
UPS power factor	Better than 0.9 lagging (For 5 KVA)		
Over load	<i>For 5 KVA UPS: UPS shall withstand 25 % overload for 1 min & 50% overload for 30 sec.</i>		
ENVIRONMENT	Noise Level – less than 55 db at a distance of 1 meter		
Protection	Over voltage, short circuit and overload at UPS output terminal, Under voltage at battery terminal,		

		Overshoot and undershoot shall not be greater than 4% of rated voltage for duration of 60 msec		
	Indicators	Mains Presence, Battery Charging and Discharging, Low battery voltage		
	Digital meters	“Input AC Voltage, Output AC Voltage, I/o Frequency, O/p Frequency, Output Current, Battery Voltage, Load Percentage, Battery Backup available in percentage, (with LED \ LCD display)”		
	Misc	ECO Mode Operation with Enable/Disable function		
		Emergency Power Off (EPO)		
		UPS to be compatible with DG supply		
		Cables : With all necessary cables and plug and Battery links		
		Rack: Suitable Metallic Rack for housing of SMF Batteries to be provided		
	Battery Detail	8000 VAH for 5 KVA - 60 min		
	Battery Type	Sealed Maintenance Free (VRLA)		
	Battery Make	Exide/Quanta/CSB/Panasonic/Yuasa (Battery Sr. No on OEM Letter Head with Warranty Assurance of 1 years)		

Item no. 33: Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter).

Sr. No.	Item (Minimum Specification)	Matched/ Not Matched	Remarks (if any)
33	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter).		

SECTION V

FINANCIAL BID FORMAT

Sr. No.	Item	Qty. (In Nos.)	Unit Price With 5 Years Warranty (In Rs.) (Without Tax)	Total Price With 5 Years Warranty (In Rs.) (Without Tax)	Rate of GST if any (%)
A	B	C	D	E=(C*D)	H
1	Indoor Dome High Resolution 2MP IP Camera	1,021			
2	Outdoor Bullet High Resolution 4MP IP Camera	358			
3	16 CH Network Video Recorder	6			
4	32 CH Network Video Recorder	7			
5	64 CH Network Video Recorder	18			
6	128 CH Network Video Recorder	4			
7	PoE 8 port Layer-2 Network Switch	230			
8	24 port Layer-2 Network Switch	34			
9	55" or higher LED Display Unit	36			
10	1 KVA Online UPS (with 30 Minutes battery backup)	35			
11	600VA online UPS, 15min Backup	217			
12	12U Rack	217			
13	24U Floor Standing Rack	35			
14	8 Port Cat-6 Jack / Patch Panel with I/Os	217			
15	24 Port Cat-6 Jack / Patch Panel with I/Os	37			
16	1 meter cat6 Factory crimped patch cord	1,326			
17	Camera Surfae mount box	1,314			
18	Cat6 UTP cable Including labour charges (Per Meter)*	91,980			
19	6 core Fiber cable*	21,700			
20	12 port LIU, fully loaded	217			
21	Surge Protection Strip	251			
22	1.5" PVC Casing Capping / PVC Conduits with accessories Including Labour Charges (Per Meter) ISI Mark*	64,386			
23	32mm HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard soil, digging) 9Per Meter) ISI Mark*	17,360			
24	25mm GI Pipe (in meter) *	6,800			
25	Necessary Electrification work with 3 core 2.5 sq mm Armerd Power copper Cable*	6,560			
26	Poles including mounting/installation	89			
27	Rack Mount Workstation For Centralized Monitoring for Command Control Center	6			
28	Central Video Management Software for Command Control Center	6			

29	42U Floor Standing Rack, 1000 mm Depth for Command Control Center	1			
30	24 port Layer-3 Network Switch for Command Control Center	1			
31	Fiber channel Dual Controller storage for Command Control Center	1			
32	5KVA UPS, 60 Mins Backup along with Battery Rack & Links.	1			
33	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter).	4,600			
Grand Total					

Note:

- **Financially L1 will be the lowest sum total of rate without tax with 5 Year Warranty.**
- **The Bidder shall explicitly mention the applicable rate of tax.**
- **Supply & installation of the above mentioned materials should be carried out by the successful bidder at various Institutes working under HODs of COH as per Annexure B.**
- **The above mentioned quantity (excluding item no. 18, 19, 22, 23, 24 & 25) of the item is estimated and for evaluation purpose only. However, actual quantity may vary as per the requirement.**
- **For Cat 6 UTP cable, 1.5" Size PVC Pipe, 32mm HDPE Pipe, 25mm GI Pipe, Asphalt Cutting including Labor Charges, has been taken based on survey carried out. Bidders have to quote the price based on his own survey carried out. Beyond the above mentioned quantity required during the installation, the additional rate is not payable. However, for lesser quantity used for installation, the actual consumption will be taken into account at the finalized rate and payment will be made on actual work carried out.**

SECTION VI

Bid Processing Fees & Earnest Money Deposit Details

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

ELIGIBILITY CRITERIA

Form No. E1: Financial strength of the bidder

Financial Year	Turnover (Rs. In Crores)	Audited Accounts uploaded? (Yes/No)
2016-17		
2017-18		
2018-19		
Grand Total		

Note: Please fill this form and upload the Audited Annual Accounts / Balance Sheet along with Profit & Loss Account for the last three financial years.

Form No. E2: 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 Customer	Address of Installation	Start date of Project	Completion date of 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 letter Submitted? (Yes/No)
1	Indoor Dome IP Camera			
2	Outdoor Bullet IP Camera			
3	16 CH Network Video Recorder (NVR)			
4	32 CH Network Video Recorder (NVR)			
5	64 CH Network Video Recorder (NVR)			
6	128 CH Network Video Recorder (NVR)			
7	8 port Switch PoE Layer-2			
8	24 port Switch Layer-2			
9	55" or higher LED Display Unit			
10	1 KVA Online UPS (with 30 Minutes battery backup)			
11	5 KVA Online UPS (with 60 Minutes battery backup)			
12	600 VA Line Interactive UPS (with 15 minutes Battery backup)			
13	8 Port Cat-6 Jack / Patch Panel with I/Os			
14	24 Port Cat-6 Jack / Patch Panel with I/Os			
15	1 feet Cat-6 Factory Crimped Patch Cord			
16	Cat 6 UTP Cable			
17	6 core single mode fiber			

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".

Make & Model List

Sr. No.	Item	Make & Model	Supporting Document uploaded? (Yes/No)
1	Indoor Dome High Resolution 2MP IP Camera		
2	Outdoor Bullet High Resolution 4MP IP Camera		
3	16 CH Network Video Recorder		
4	32 CH Network Video Recorder		
5	64 CH Network Video Recorder		
6	128 CH Network Video Recorder		
7	PoE 8 port Layer-2 Network Switch		
8	PoE 24 port Layer-3 Network Switch		
9	55" or higher LED Display Unit		
10	1 KVA Online UPS (with 30 Minutes battery backup)		
11	600VA online UPS, 15min Backup		
12	12U Rack		
13	24U Floor Standing Rack		
14	8 Port Cat-6 Jack / Patch Panel with I/Os		
15	24 Port Cat-6 Jack / Patch Panel with I/Os		
16	1 meter cat6 Factory crimped patch cord		
17	Camera Surfae mount box		
18	Cat6 UTP cable Including labour charges (Per Meter)*		

19	6 core Fiber cable*		
20	12 port LIU, fully loaded		
21	Surge Protection Strip		
22	1.5" PVC Casing Capping / PVC Conduits with accessories Including Labour Charges (Per Meter) ISI Mark*		
23	32mm HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard soil, digging) 9Per Meter) ISI Mark*		
24	25mm GI Pipe (in meter) *		
25	Necessary Electrification work with 3 core 2.5 sq mm Armerd Power copper Cable*		
28	Poles including mounting/installation		
29	Rack Mount Workstation For Centralized Monitoring for Command Control Center		
30	Central Video Management Software for Command Control Center		
31	42U Floor Standing Rack, 1000 mm Depth for Command Control Center		
32	24 port Layer-3 Network Switch for Command Control Center		
33	Fiber channel Dual Controller storage for Command Control Center		

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 VII

Performa of Compliance letter/Authenticity of Information Provided

(On Non judicial Stamp paper of Rs. 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-10 A, Gandhinagar

Sub: Compliance with the tender terms and conditions, specifications and Eligibility Criteria

Ref: Bid for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat. (Tender No. HWT240120609).

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 _____.

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 _____ 2019

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

Format of Earnest Money Deposit in the form of Bank Guarantee

Ref:

Bank Guarantee No.

Date:

To,

DGM (Technical)

Gujarat Informatics Ltd.

Block No. 2, 2nd Floor,

Karmayogi Bhavan,

Sector-10 A, Gandhinagar

Whereas ----- (here in after called "the Bidder") has submitted its bid dated ----- in response to the Tender no: HWT240120609 for the Selection of Agency for Supply, Installation, Commissioning & Warranty Support of various Equipments for the Implementation of Video Surveillance System at various Government Institutes/colleges working under Office of the Commissioner of Higher Education, Government of Gujarat 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 -----2019.

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.
 - (v) If the successful bidder fails to submit the Performance Bank Guarantee & sign the Contract Form within prescribed time limit, the EMD of the successful bidder will be forfeited. GIL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists.

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 9 months from the last 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 _____ 2019.

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 VIII

**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 <<GoG Department>> 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 _____ 2019.

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 the _____ day of _____, 2019 ____ 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 _____

Tentative Details for the distribution of CCTV Cameras at each Institute/College (1 to 17)

			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sr. No.	Item Description	UOM	Central Loaction	RR Lalan Bhuj	GACC, Jafraabad	GACC, Rapar	BSC Junagadh	Amplaw, Rajkot	GACC, Kadoli	GAC, Kotda Sangani	GACC, Sami	GAC, Chotila	GAC, Ranavav	GACC, Gadhada	GACC, Barwala	GCC, Naroda	GACC, Babara	GLC, Khokhra	GACC, Paddhari	GAC, Talaja
1	Indoor Dome 2MP IP Camera with Internal microphone for audio recording.	Nos	0	46	26	15	32	32	17	32	37	20	10	19	6	13	8	6	29	16
2	Outdoor Bullet 2MP IP Camera	Nos	0	8	12	5	14	11	0	12	10	8	0	8	2	0	1	4	16	0
4	16 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0
5	32 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	1
6	64 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	1	0
7	128 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	PoE 8 port Layer-2 Network Switch with IP30 for better raing semi-outdoor with dual redunadent power supply for power backup and handel upto 70degree temperature	Nos	0	11	5	3	7	7	3	7	7	4	2	4	1	3	2	2	7	3
9	24 port Layer-2 Network Switch	Nos	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	55" or higher LED Display Unit	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

11	1 KVA Online UPS (with 30 Minutes battery backup)	Nos	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	600VA online UPS, 15min Backup	Nos	0	11	5	3	7	7	3	7	7	4	2	4	1	3	2	2	7	3
13	12U Rack	Nos	0	11	5	3	7	7	3	7	7	4	2	4	1	3	2	2	7	3
14	24U Floor Standing Rack	Nos	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	8 Port Cat-6 Jack / Patch Panel with I/Os	Nos	0	11	5	3	7	7	3	7	7	4	2	4	1	3	2	2	7	3
16	24 Port Cat-6 Jack / Patch Panel with I/Os	Nos	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1 meter cat6 Factory crimped patch cord	Nos	12	54	38	20	46	43	17	44	47	28	10	27	8	13	9	10	45	16
18	Camera Surfae mount box	Nos	0	54	38	20	46	43	17	44	47	28	10	27	8	13	9	10	45	16
19	Cat6 UTP cable Including labour charges (Per Meter)*	Mtr	0	3780	2660	1400	3220	3010	1190	3080	3290	1960	700	1890	560	910	630	700	3150	1120
20	6 core Fiber cable*	Nos	0	1100	500	300	700	700	300	700	700	400	200	400	100	300	200	200	700	300
21	12 port LIU, fully loaded	Nos	0	11	5	3	7	7	3	7	7	4	2	4	1	3	2	2	7	3
22	Surge Protection Strip	Nos	1	12	6	4	8	8	4	8	8	5	3	5	2	4	3	3	8	4
23	1.5" PVC Casing Caping / PVC Conduits with accessories Including Labour Charges (Per Meter) ISI Mark	Mtr	0	2,646	1,862	980	2,254	2,107	833	2,156	2,303	1,372	490	1,323	392	637	441	490	2,205	784
24	32mm HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard soil, digging) 9Per Meter) ISI Mark	Mtr	0	880	400	240	560	560	240	560	560	320	160	320	80	240	160	160	560	240
25	25mm GI Pipe (in meter)	Mtr	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
26	Necessary Electrification work with 3 core 2.5 sq mm Armerd Power copper Cable	Mtr	50	330	150	90	210	210	90	210	210	120	60	120	30	90	60	60	210	90
27	Poles including	Nos	0	8	2	2	2	2	5	3	4	2	2	2	2	2	2	2	4	5

	mounting/installation																			
28	Rack Mount Workstation For Centralized Monitoring for Command Control Center	Nos	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Central Video Management Software for Command Control Center	Nos	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	42U Floor Standing Rack, 1000 mm Depth for Command Control Center	Nos	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	24 port Layer-3 Network Switch for Command Control Center	Nos	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Fiber channel Dual Controller storage for Command Control Center	Nos	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	5KVA UPS, 60 Mins Backup along with Battery Rack & Links.	Nos	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter).	Nos	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Tentative Details for the distribution of CCTV Cameras at each Institute/College (18 to 33)

Sr. No.	Item Description	UOM	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	TOTAL QTY
			GCC, Gandhinagar	Govt. Science College Maninagar	Govt. Science College Panchmahal	Bhauhin Science College Junagardh	Dharmendra Singh Arts College Rajkot	Govt. Science College Gandhinagar	Gujarat Arts & Science College Ahmedabad	Govt. Arts & Science College Bajva, Ahmedabad	Shree DKV Arts & Science College Jamnagar	GSC, Vankal	GAC Jhagadia	GAC, Bhilad	GACC, Kachhal	GSC, Ahwaha	Govt College Manglore Surat	Govt. Science & Commerce College Chotaudaipur	Government Girls Hostel, Ellis bridge, Ahmedabad	
1	Indoor Dome 2MP IP Camera with Internal microphone for audio recording.	Nos	32	58	31	20	31	45	93	25	54	79	32	30	28	42	13	22	22	1,021
2	Outdoor Bullet 2MP IP Camera	Nos	28	20	17	6	12	8	28	6	28	17	10	6	15	0	0	3	43	358
4	16 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
5	32 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	7
6	64 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	1	0	1	0	1	1	0	1	0	0	1	1	1	1	0	0	2	18
7	128 CH Network Video Recorder with 7200RPM Enterprises HDD	Nos	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	4
8	PoE 8 port Layer-2 Network Switch with IP30 for better raing semi-outdoor with dual redunadent	Nos	12	14	7	4	7	11	17	5	14	15	7	5	7	7	3	4	13	230

	power supply for power backup and handel upto 70degree temperature																				
9	24 port Layer-2 Network Switch	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	34
10	55" or higher LED Display Unit	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	36
11	1 KVA Online UPS (with 30 Minutes battery backup)	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	35
12	600VA online UPS, 15min Backup	Nos	12	14	7	4	7	11	17	5	14	15	7	5	7	7	3	4	13	217	
13	12U Rack	Nos	12	14	7	4	7	11	17	5	14	15	7	5	7	7	3	4	13	217	
14	24U Floor Standing Rack	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	35
15	8 Port Cat-6 Jack / Patch Panel with I/Os	Nos	12	14	7	4	7	11	17	5	14	15	7	5	7	7	3	4	13	217	
16	24 Port Cat-6 Jack / Patch Panel with I/Os	Nos	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	37
17	1 meter cat6 Factory crimped patch cord	Nos	60	78	48	26	43	53	121	31	82	96	42	36	43	42	13	25	65	1,326	
18	Camera Surfae mount box	Nos	60	78	48	26	43	53	121	31	82	96	42	36	43	42	13	25	65	1,314	
19	Cat6 UTP cable Including labour charges (Per Meter)*	Mtr	4200	5460	3360	1820	3010	3710	8470	2170	5740	6720	2940	2520	3010	2940	910	1750	4000	91,980	
20	6 core Fiber cable*	Nos	1200	1400	700	400	700	1100	1700	500	1400	1500	700	500	700	700	300	400	1500	21,700	
21	12 port LIU, fully loaded	Nos	12	14	7	4	7	11	17	5	14	15	7	5	7	7	3	4	13	217	
22	Surge Protection Strip	Nos	13	15	8	5	8	12	18	6	15	16	8	6	8	8	4	5	15	251	
23	1.5" PVC Casing Caping / PVC Conduits with accessories Including Labour Charges (Per	Mtr	2,940	3,822	2,352	1,274	2,107	2,597	5,929	1,519	4,018	4,704	2,058	1,764	2,107	2,058	637	1,225	3,000	64,386	

	Meter) ISI Mark																				
24	32mm HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard soil, digging) 9Per Meter) ISI Mark	Mtr	960	1,120	560	320	560	880	1,360	400	1,120	1,200	560	400	560	560	240	320	1,500	17,360	
25	25mm GI Pipe (in meter)	Mtr	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	6,800
26	Necessary Electrification work with 3 core 2.5 sq mm Armerd Power copper Cable	Mtr	360	420	210	120	210	330	510	150	420	450	210	150	210	210	90	120	450	6,560	
27	Poles including mounting/installation	Nos	2	3	2	2	2	2	2	2	2	2	5	2	2	2	2	2	2	2	89
28	Rack Mount Workstation For Centralized Monitoring for Command Control Center	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
29	Central Video Management Software for Command Control Center	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
30	42U Floor Standing Rack, 1000 mm Depth for Command Control Center	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	24 port Layer-3 Network Switch for Command Control Center	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	Fiber channel Dual Controller storage for Command Control Center	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

33	5KVA UPS, 60 Mins Backup along with Battery Rack & Links.	Nos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter).	Nos	200	0	0	0	0	0	0	0	0	200	200	200	200	200	0	0	450	4,600