

RFP DOCUMENT FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF, SURVEILLANCE AND NETWORKING COMPONENTS INCLUDING CAMERAS, VMS, SWITCHES, DISPLAY AND PASSIVE CABLING COMPONENTS AT NATIONAL INSTITUTE OF DESIGN AHMEDABAD AND GANDHINAGAR CAMPUSES



राष्ट्रीय डिज़ाइन संस्थान
NATIONAL INSTITUTE OF DESIGN

Last date for submission of queries	: 18-11-2021 upto 6:00 PM
Last date for submission of bid	: 29-11-2021 upto 6:00 PM
Technical bid opening date & time	: 30-11-2021 at 6.00 PM
Financial bid opening date & time	: Will be intimated to the technically qualified Bidders

Contact Person:

Lt Cdr S Ganesh Karpoo(Retd)
Purchase & Stores Officer
The Purchase & Stores Department
National Institute of Design, Opp. Museum
Paldi, Ahmedabad 38007. Gujarat

Note: All Queries/ Correspondences to be addressed to :

The Purchase Department **only in e-mail** : purchase@nid.edu

Pre-bid meeting would be scheduled on 18-11-2021 at 1100h at NID, Ahmedabad. Bidders interested to participate in the meeting may express their willingness, in advance, on the above mentioned e-mail.

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SECTION -1 - PROJECT PROFILE

1.1. Introduction

National Institute of Design, Ahmedabad is an internationally acclaimed as one of the finest educational and research institutions for Industrial, Communication, Textile and IT Integrated (Experiential) Design. It is an autonomous institution under the aegis of the Ministry of Commerce and Industry, Government of India. **The Act of Parliament, by virtue of the National Institute of Design Act 2014, has declared NID 'Institution of National Importance'.**

It is also recognised by the Department of Scientific and Industrial Research, Government of India as a Scientific and Industrial Research Organisation.

1.2. Details of Existing IT Infrastructure.

NID has a LAN network, which is around 3000 nodes in size, and has a Server room, which hosts the Core switch of HP 10508 and HPE 5940 on which different stacks of HPE 5130 switches are, connected over 10G Uplinks in redundant path.

1.3. Brief Scope. NID is planning to use the same backbone for purpose of Surveillance and this RFP is being floated to select the Bidder who will perform on turnkey basis, the following activities:-

- (a) Supply of hardware and software related to CCTV, Switching, Passive Components and necessary accessories required for cabling and CCTV project.
- (b) Commissioning and Installation of the above-mentioned components on Turnkey basis.
- (c) Maintenance support for the installed hardware during the Warranty period. thereby ensuring that the any system/ subsystem is not down for more than 48 hrs.
- (d) The Camera categories that need to be supplied and commissioned include Dome, Bullet, PTZ and Panoramic type of cameras.
- (e) The switching component that needs to be supplied and commissioned in the existing stack of switches.
- (f) The cabling components are to include CAT6 cable alongwith other associated accessories that would be needed to connect this camera to the newly added POE+ switches in the existing stacks which are operational.
- (g) UPS Power, with earthing and rack space shall be provided by NID.
- (h) All Racks in the hub rooms where switches are installed are having the earthing provisions. All cameras are to be POE powered, if any outdoor earthing is required for the Poles, then bidders can consider the cost of the same under installation charges.

Note : Successful bidder shall have to submit all relevant certifications/ standards from OEMs/ AHSP i.r.o all items/ services (including accessory items) that are provided as a part of this project.

Bidder has to supply, install, test, commission and maintain the components, as per warranty which are supplied as per the specifications mentioned in the technical section and additional items required for completion of project viz accessories required for the project completion should be included in cost of accessories under the accessory cost in the commercial bid.

Note : Bidders are therefore advised/ recommended to visit NID Ahmedabad & NID, Gandhinagar campus to understand the Project completely prior bidding.

Note : NID, Ahmedabad shall not pay anything extra other than the costs indicated in the commercial bid, by the vendor.

It is proposed to complete these works as per the given schedule. The nature of works are broadly brought out in in Section -3 "Scope of Work"

The Bidder has to bid for all the components on SITC basis and if the bid is not offered as above then the same will be liable to rejection.

1.4. **Schedule of Project.**

Ser	Project
1	RFP document for Supply, Installation, Testing & Commissioning of, surveillance and networking components including cameras, VMS, switches, Display and other accessory components at National Institute of Design Ahmedabad and Gandhinagar campuses The broad scope of works will be as defined above in section of the project profile.

SECTION -2 : TENDER NOTICE AND INFORMATION FOR ONLINE BIDDING

On behalf of NID, Ahmedabad, the Purchase department invites online tenders for "supplying, installing, testing & commissioning of surveillance and networking components including cameras, Recording monitoring, switches and passive cabling components at National Institute of Design."

2.1 **Schedule For E-Tendering.**

I	Tender Document can be downloaded from website https://nprocure.com , www.nid.edu and https://eprocure.gov.in/	Within 21 days from the date of publishing
II	Last date of Submission for query through email or letter. Please note that after the final query submission date no queries by any Bidder will be entertained	18-11-2021 upto 6:00 PM
III	Tender queries to be addressed to the email id referred. Note: Tender Enquiry no to be indicated in the subject of e-mail.	purchase@nid.edu
IV	Last date and time for the online Tender submission	29-11-2021 upto 6:00 PM
V	Online Opening of Technical bid	30-11-2021 upto 6:00 PM
VI	Financial bid opening date & time	Post assessment & approval of Technical bids

2.2 **Tender Documents Download.** Tender documents will be able to be downloaded from the website www.nid.edu, <https://nprocure.com> & <https://eprocure.gov.in/> for a period of 21 days from the date of publishing on website. Bidders who wish to participate in this tender shall have to register on web site <https://nprocure.com>.

2.3 **Digital Certificate.** Bidders who wish to participate in online tendering shall have to procure / should have legally valid Digital Certificate (Class III) as per Information Technology Act-2000, using which they can sign their electronic tenders. Bidders can procure the same from any of the licensed certifying Authority of India or can procure from (n) code solutions – a division of GNFC Ltd, who are licensed Certifying Authority by Govt. of India. All tenders shall be digitally signed. For details regarding digital signature certificate and related training the below mentioned addressee shall be contacted. In case bidders need any clarification/assistance or training for participating in online tender, they can contact the following office:

(n) Code solutions, A division of GNFC
 301, GNFC Info tower, Bodakdev, Ahmedabad – 380 054 (India) Tel: + 91
 26857316/17/18, Fax: +91 79 26857321,
 Mobile: 9327084190, 9925117079; E-mail: nprocure@gnvfc.net

2.4. Bidders who already have a valid Digital certificate need not procure new Digital certificate.

2.5 **Online Submission of Tender.** Bidders can prepare and add/ modify/ upload their bid any number of times prior to the last dates and time prescribed for tender submission. However, the tender shall not be permitted to do the same in any case after the last date and

time prescribed for submission of tender as specified hereunder.

2.6 No written or online request in this regard shall be entertained. Bidders shall submit their tender in electronic format only on <https://nid.nprocure.com> prior to the date and time mentioned above, and each tender shall be digitally signed by the authorized person of the bidder. Tender documents in any other form including in physical form shall not be accepted and the same shall be accepted in the electronic format.

2.7 Scanned copies of all details as required shall be uploaded in electronic format. Following details or documents are mandated to be supplied as a part of Technical Bid for evaluation:-

- (a) System/ subsystem level brochure for all items to be supplied by the bidder.
- (b) Certifications viz BS/ EN/ ISI etc for various items proposed to be supplied.
- (c) Tender Letter Form.
- (d) Manufacturer's Authorization Form
- (e) Work Experience alongwith documented evidence for the claim.
- (f) Financial Strength of the bidder.
- (g) Proforma for Bid security/ EMD declaration
- (h) Technical Compliance/ deviation form as per the format in tender, duly filled.

2.8 During the opening of online technical bid if it is found that above details as are not submitted in electronic format, tenders of such bidder shall not be considered.

2.9 Tender must be submitted as per two bid system (Technical and Financial). Both the bids must be submitted online, giving full particulars on website www.nprocure.com before **29-11-2021 up to 6:00 PM.** Bids received after the date and time specified in this tender will not be accepted.

2.10 Bid submitted online only on www.nprocure.com will be considered and if submitted in any other form will be not considered and rejected. NID, Ahmedabad reserves the right to accept or reject any or all the bids without assigning any reason.

2.11 The Technical bid should be complete in all respects and should contain all the documents/ information sought for. The technical bid should contain only the commercial terms

and conditions & not the Financial bid/ rate. The Technical bid should be complete to indicate that products and services asked for are quoted.

2.12 The Financial Bid must give all relevant price information and should not contradict the Technical bid in any manner.

2.13 Bidder can download the bid document and further amendments, if any for free on NID website www.nid.edu, www.nprocure.com and <https://eprocure.gov.in/> and upload the same on or before last date of submission of tender on www.nprocure.com.

2.14 Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish the requisite information required by the bidding documents or submitting a Bid that is not substantially responsive to the bidding documents in every respect shall result in the rejection of the Bid.

2.15 At any time prior to the deadline for submission of bids, NID Ahmedabad, for any reason, whether at its own initiative or in response to the clarifications requested by prospective Bidders may modify the bidding documents by amendment & publish the same on above mentioned websites.

2.16 Any amendments/corrigendum/modifications will be notified on www.nid.edu and www.nprocure.com websites only. Bidders are advised to regularly browse the portals till the last date of submission of tender. These amendments / corrigendum/ modifications will be binding on them.

2.17 In case of queries regarding tender documents, the list of queries may be sent only through email to purchase@nid.edu **on or before query submission dates**. Post the cut off time no queries will be entertained. **Correspondences through other means are not obliged.**

2.18 **Technical Bid Opening.** Technical tenders shall be first opened online as per schedule mentioned in tender at NID, Ahmedabad as per the date and time defined in the header.

2.19 Technical bid shall be evaluated as per procedures mentioned in the tender documents. The decision of the committee on evaluation of the bids shall be final and binding to every bidder.

2.20 **Commercial bid Opening.** Commercial bid of only qualified bidder whose technical bid is accepted shall be opened. Tenders with incomplete details in any aspect shall be rejected.

2.21 Conditional/ Part tenders shall not be accepted.

2.22 This tender notice shall form a part of tender document.

2.23 Bidders are required to mention their email address in the technical bid.

SECTION III – SCOPE OF WORK

3.1 The Scope of the work includes undertaking various supplies and services related to the deployment of various solutions. The details are:

(a) **Supply of CCTVs, Display systems, IT Switches and other Accessories in aid of CCTV Surveillance.** Only the primary items required for the surveillance are brought out in BoQ. Therefore, supply of the primary items(hardware & associated software) alongwith requisite accessory/ Miscellaneous items viz cabling, piping, camera holders, route markers(as applicable) etc that are required for completion of the project are to be supplied by the successful bidder.

(b) **Installation of CCTV Surveillance System.** This includes installation of accessories like poles, Conduits HDPE, cables etc. Annexure VII brings out the checklist that is to be adhered to for installation of CCTV system. Further, it shall be ensured that provision for viewing the feed of CCTV is made available in the existing Workstations available at the Client site as per authorization. Further, following recommendations are to be adhered to.

(i) **Manufacturer's Recommendations.** All system components shall be installed in accordance with the manufacturer's recommendations. If installation of a component in accordance with the manufacturer's recommendations is not possible, advice should be sought from the manufacturer or supplier by the vendor.

(ii) **Environmental Considerations.** System components shall be suitable for the environmental conditions in which they are to operate. Examples of environmental considerations include potential impact of changes in foliage from season to season, potential impact of daily and seasonal variations in light and climatic conditions.

(c) **Test and Commission.**

(i) **Inspection.** A Joint Receipt Inspection(Vendor & reps NID) of the system shall be carried out and documented on completion of the installation of the CCTV system to confirm that the CCTV system has been installed in accordance with the user requirement.

(ii) **Functional Testing** The CCTV system shall be tested and compared with the requirements of the user.

(d) **Maintenance.** Regular preventative maintenance or servicing should be carried out to ensure that the CCTV system performs to the same level as pertained at the time of commissioning and hand-over of the system. Checklist/ SoP is placed at Annexure VIII.

(i) Maintenance, servicing and repair of CCTV systems shall only be carried out by a successful bidder who in possession of a current, valid licence to do so.

(ii) It is the bidders responsibility to ensure that CCTV system to be properly maintained (inspected and serviced) and repaired as scheduled or necessary. A documented arrangement shall be made between the NID, Ahmedabad and the contractor for the repair and maintenance of the CCTV surveillance systems. The arrangements shall specify the schedule of maintenance agreed including:

(aa) The frequency of maintenance required

(ab) Whether the maintenance is undertaken remotely or on-site.

(ac) The requirements of such maintenance Preventative maintenance shall include a checklist that would be prepared by the contractor as per the SoPs.

(ad) NID, Ahmedabad shall be informed, in writing, of the date the maintenance was carried out and the identity of the person who carried out the maintenance.

(iii) Where any on-site maintenance is carried out, a documented record shall be signed by the maintenance technician/engineer and the rep NID, Ahmedabad and/or user.

(iv) Where any agreed remote maintenance is undertaken, the maintenance technician/engineer shall supply the client and/or user with details of the maintenance undertaken.

(v) Where the person carries out agreed corrective or responsive maintenance, the client shall receive, in writing, a document:-

(aa) Outlining the fault condition requiring correction or repair.

(ab) The actions taken to remedy the fault condition

(ac) An undertaking that the system has been returned to the operational status pertaining before the fault condition occurred.

(vi) Modifications made to the CCTV installation or its configuration, shall be documented and notified in writing to the client and/or user and an inspection test shall be carried out on the relevant components or parts of the system.

(e) Deployment of CCTV; recording and monitoring and accessories as per the Specifications on SITC Basis. Further, NID, Ahmedabad will provide required configuration workstation for Enabling View of Cameras

3.2 Bidder will be responsible to undertake and complete the works related to **supply installation, Testing and commissioning of services as indicated in the bid.**

3.3 The works are to be completed on turnkey basis and the supplied equipment are required to be maintained for three years on comprehensive warranty basis from the date of Final Approval and Testing and accept the work-order. The Bidder shall be responsible for implementation of the work as defined.

3.4 **Bidder is required to carry out following tasks.**

Turnkey Project Basis: - The Bidder shall act as single Bidder to organize and manage the entire project – including supply, installation, testing and commissioning of all required hardware, software, networking, accessory items etc. The Bidder shall be in a position to test, demonstrate and certify the basic requirements in accordance with the work-order.

Technical arrangements: - The Bidder shall provide details of site and infrastructure requirements (Power, earthing etc.) in a layout plan after making a site survey.

Warranty and Post-Warranty Support: - The Bidder shall be responsible for the warranty support and for the post warranty support and as required by the NID.

All goods or materials shall be supplied strictly in accordance with the specifications, Drawings, datasheets, other attachments and conditions stated in the RFP / Agreement / Work-Order. All materials supplied by the Bidder shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials.

Important Note : Being a turn-key project, bidders are advised to visit the campus of NID, Ahmedabad and NID, Gandhinagar to understand the project prior bidding.

SECTION – 4 - BID PRE-QUALIFICATION CRITERIA

Bidders desirous of bidding for the project shall fulfill the following pre-qualification criteria:-

Ser	Eligibility Criteria	Attachments
a.	The Bidder should be in the business of providing similar solutions in India since last 10 years.	Relevant registration documents like GST certificate, Gumasta Dhara certificate etc. should be given as a supporting document. In case the bidder is a Company than ROC certificate can be given.
b.	<p>Bidder must have successfully completed at least the following numbers of projects within last five years related to CCTV Surveillance on SITC basis for the value specified herein :</p> <p>One project of similar nature not less than Rs. 90 lakhs amount value</p> <p style="text-align: center;">OR</p> <p>Two projects of similar nature not less than Rs. 70 lakhs (each) amount value</p> <p style="text-align: center;">OR</p> <p>Three projects of similar nature not less the Rs. 50 lakhs(each) amount value</p>	<p>Purchase/ Work Order + Completion Certificate from the client.</p> <p>Details should be uploaded in the format as defined in Annexure III</p>
c.	Annual turnover of the firm for the last three financial years. (I.e. 2017-2018, 2018-2019, 2019-2020) should be at least INR 5 crores each year from the SI activity business (IT Infrastructure that includes CCTV surveillance). The Bidder should upload the copies of the audited Balance Sheet and Profit & Loss accounts. Extract highlighting the comments of the auditor confirming revenue from the ICT Business should be also uploaded as a separate document.	<p>Audited and Certified Balance Sheet and Profit/Loss Account of last 3 Financial Years should be enclosed. CA certificate mentioning turnover and SI activity of the Bidder should be enclosed.</p> <p>Details should be uploaded in the format as defined in Annexure – VI - details of Annual Turnover</p>
d.	The Bidder should have at least one administrative office in Gujarat. The Bidder should have its own service & support infrastructure in Gujarat to provide warranty and post warranty services seamlessly.	<p>The details for administrative & service infrastructure must be enclosed, as a part of a declaration Bidder should submit a self-attested copy on their letter head</p> <p>The details for OEM service & support</p>

Ser	Eligibility Criteria	Attachments
		infrastructure in Gujarat should submit on OEM letter head
e.	The Bidder should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the tendering Authority.	Certificate / affidavit mentioning that the Bidder is not blacklisted by the GoI or Government of Gujarat or any of the PSUs in India due to engagement in any corrupt and fraudulent practices or conviction under IPC or any other law for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract. Self-Declaration Form must be submitted to this effect.
f.	<p>The Bidder must have a valid GST Registration in India.</p> <p>The Bidder must have positive net worth and should be profit making for each of the last three financial years i.e 2017-18, 2018-19, 2019-20.</p> <p>The Bidder should get the Original Equipment Manufacturer Authorizations for the Products being offered for the following categories CCTV OEM Switches OEM Passive Components OEM Screen OEM</p> <p>Bids without MAF and Supporting documents for RFP will be outrightly rejected and will not be considered for evaluation</p>	<p>Proof of a valid GST in India should be enclosed.</p> <p>Audited and Certified Balance Sheet and Profit/Loss Account of last 3 Financial Years should be enclosed. CA certificate mentioning net profit of the Bidder should be enclosed.</p> <p>MAF as per the Format defined from all OEM's and in case the OEM is bidding then he needs to give a declaration for the range of products he is offering from its portfolio</p>

SECTION – 5 - INSTRUCTIONS, TERMS AND CONDITIONS

5.1 **Cost of Bidding.**

The Bidder shall bear all costs associated with the preparation and submission of the Bid and NID will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.

5.2 **Amendment of Bidding Documents.**

- (a) At any time prior to the deadline for submission of bids, NID, for any

reason, whether at its own initiative or in response to the clarifications requested by prospective Bidders may modify the bidding documents by amendment.

(b) All Bidders will be notified of the amendment and such modification will be binding on them.

(c) In order to allow prospective Bidders a reasonable time to consider the amendment in preparing their bids, NID, at its discretion, may extend the deadline for the submission of bids.

5.3 **Language of Bid.** The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and NID shall be in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in English. For purposes of interpretation of the bid, the translation shall govern. Bids will be prepared in English language and if any supporting documents are there in the local language the same can be accepted. Communication will be in English language only.

5.4 **Technical Section.**

Clause by clause compliance statement for Bid document including all annexure is to be submitted.

- (a) All annexure / tables, duly filled-in with necessary proofs, as required and stated in the bid document.
- (b) Letter of Authority for signing the bid.
- (c) Make & Model of quoted in the bid with brochures/internet printout.
- (d) For compliance of terms and conditions of the tender, bidders are required to sign all pages of tender document by an authorized official of the bidder's organization.
- (e) All the Hardware equipment quoted must be of same make / OEM. However, bidders can offer third party licenses software to comply mentioned technical requirements wherever applicable.
- (f) Any Hardware equipment quoted other than same OEM make will not be accepted. It is mandatory to quote all schedule and provide make, model and part numbers of all items and their sub-components as asked in the technical specification.
- (g) The bid may not be evaluated and/or will be liable for rejection in case of non-submission or partial submission as per mentioned schedule and or partial submission of make, model and part numbers of the items supplied.
- (h) The supply of any substandard/assembled item will entail cancellation of whole supply order and forfeiture Security deposit.

5.5 **Price bid Section.** (in the prescribed format mentioned in Section VIII only)

The Financial Bid should be uploaded separately in the prescribed format of BOQ available on online procurement portal nprocure.com. The Financial bid Form shall contain only price details for items (in words and figures). If NID, Ahmedabad finds any mismatch in words and figures, **lowest amount / figure** shall be considered for the said purpose.

No other charges such as packing, forwarding, cartage, insurance, loading and unloading, entry tax, demo, etc. will be allowed.

The consolidated price quoted shall be firm and final and payable for the goods/ services supplied/ rendered at NID Ahmedabad and Gandhinagar campus. Rates shall be valid for the entire duration of the contract.

5.6 **Fraudulent & Corrupt Practices.**

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

“Corrupt Practice” means the offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of Work- order execution NID will reject a proposal for award and may forfeit the E.M.D. and/or Performance Guarantee if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, work-order(s).

5.7 **Lack of Information to Bidder.**

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

5.8 **Terms and Conditions.**

Terms and conditions for Bidders who participate in this Tender are specified in the section named “**Terms and Conditions**”. These terms and conditions are binding on all the Bidders. These terms and conditions will be part of the purchase order.

The Bidder should be agreeable to all the terms and conditions specified in the tender document. Conditional bids are liable for outright rejection.

5.9 **Preliminary Scrutiny.**

NID, Ahmedabad will scrutinize the e-bids received to determine whether they are complete and as per Tender requirement, whether technical documentation as asked for and necessary to evaluate the bid has been submitted, whether the documents have been properly signed and whether all the items are supplied as per the requirements.

NID Ahmedabad may, at its discretion, waive any minor non-conformity or any minor irregularity in the bid. This waiver shall be binding on all the Bidders and NID AHMEDABAD reserves the right for such waivers.

5.10 **Clarification on Bids Received**

To assist in the scrutiny, evaluation and comparison of bids, NID Ahmedabad may, at its discretion, ask some or all the Bidders for clarifications on the bid made by them. The request for such clarifications and the Bidder response will necessarily be in writing.

5.11 **No Commitment to Accept Lowest or any Bid: -**

NID Ahmedabad is under no obligation to accept the lowest or any other bid received in response to this tender and reserves its right to reject any or all the bids including incomplete bids without assigning any reason whatsoever. NID Ahmedabad will not be obliged to meet and have discussions with any Bidder and/or to entertain any representations.

5.12 **Erasures or Alterations: -**

The offers containing erasures or alterations will not be considered. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable.

5.13 **Bid processing fee and EMD details:-**

NIL (As per the extant Govt orders) However, an EMD Declaration Form duly signed in Prescribed proforma (Annexure VI) should be uploaded/ submit with tender documents, the offer submitted without the requisite EMD declaration proforma as per Annexure VI shall be rejected and will not be considered for evaluation and the cost of tender document shall not be refunded.

Tender Fees : **NIL**

Bidders are required to upload/ submit the same before last date of submission.

5.14 **Bid Price (in INR Value):-**

The price quoted in the Tender should excluding the GST. The offer should include Freight, Packing, Loading & unloading (at our site in NID, Ahmedabad or Gandhinagar campus), Transportation Charges and Transit Insurance (from the warehouse to our premises).

NID will issue Concessional Rate of 5% GST on "Materials Only" certificate as per Govt. Notification No. 45/2017 – Central Tax (Rate)/ No. 45/2017 – State Tax (Rate)/ No.47/2017- Integrated Tax (Rate), Dated: 14.11.2017 issued by Ministry of Finance, Department of Revenue of Government of India and it will be issued at the time of issual of confirmed Work / Purchase Order to selected bidder. In case NID expresses inability to provide the said certificate, Actual GST may be charged

Unit rates should be quoted separately for each item. Quantities can be increased/ decreased upto 10% by the purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document till placement of PO.

L-1 determination will be based on basic cost alongwith other allied costs (i.e excluding of GST). Therefore, Unit rates should be quoted separately for each item. For supply and services for the goods whose value is quoted in INR, NID will issue one single PO for the same and the payment terms shall be as per the para below.

5.15 **Payments Terms.**

- 1 No advance payment will be made.
- 2 Post submission of PBG / SD and after receipt of deliveries of the materials within 30 days from the date of purchase / work order and upon submission of requisite proof, 80% payment of the delivered material value only shall be released within 30 days post-delivery and acceptance of materials Partial supply and its payment request will be considered on the sole decision of NID
- 3 Balance payment of PO value shall be made after completion of entire work and final acceptance, testing and certified by NID Officials. Bidder to provide necessary certifications from respective OEM/ AHSPs that all the activities pertaining to Supply, Installation, Testing and Commissioning have been undertaken as per Standard Operating Procedures or relevant rules/ guidelines of OEM/ Govt to respective activity
- 4 NID will issue Concessional Rate of 5% GST on Materials Only as per Govt. Notification No. 45/2017 – Central Tax (Rate)/ No. 45/2017 – State Tax (Rate)/ No.47/2017- Integrated Tax (Rate), Dated: 14.11.2017 issued by Ministry of Finance, Department of Revenue of Government of India. For the same, bidders are required to check and submit the offer excluding GST.

5.16 **Taxes/ Other Charges for INR Order Value Only.**

Vendor shall be entirely responsible for all taxes (excluding GST) viz duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

5.17 **Price Comparison.**

In order to arrive at the lowest (of technically qualified bidders) offer, NID will consider the price in totalilty i.e inclusive of 3-year on-site warranty. NID will not consider L1 Bidder for each item separately at the time of opening of financial bids.

5.18 **No Negotiation.**

It is absolutely essential for the Bidders to quote the lowest price at the time of making the offer in their own interest, as the NID will not enter into any further price negotiations except with the lowest quoting Bidder whose offer is found to be technically acceptable.

5.19 **Short-listing of Bidders.**

The commercial offers of only those Bidders whose technical offers found to be technically fit would be evaluated; Rest of the Bids would not be opened and evaluated. Also, Bids with Conditional offer shall also be rejected.

5.20 **Evaluation Process.**

The evaluation process of the tender proposed to be adopted by the NID is indicated under this clause. The purpose of this clause is only to provide the Bidders an idea of the evaluation process that the NID may adopt. However, the NID reserves the right to modify the evaluation process at any time during the Tender process, without assigning any reason, whatsoever and without any requirement of intimating the Bidders of any such change.

5.21 **Evaluation of Bid.**

Bidders need to fulfill all the Technical criteria and conditions mentioned in RFP document. NID will examine the bids to determine whether they are complete responsive, whether the bid format confirms to the Tender's requirements, whether any computational errors have been made, whether required EMD declaration, MAF as per proforma has been furnished, whether the documents have been properly signed, and whether the bids are in order including Techno commercial compliance.

The criteria prescribed in respect of specifications of items, years of operation in the business, experience of similar class of work completed etc will first be scrutinized as part of Technical evaluation and the Bidder's eligibility for the work will be determined.

As a part of the process to evaluate the technical bids, Technical Evaluation Committee may also ask the Bidders to make a presentation/ demonstration before it.

After evaluating the technical bids and on acceptance, then only financial bids of technically fit vendors would be opened.

L1 Bidder for items and services in totalilty would be decided at the time of opening of financial bids. NID, Ahmedabad will award work to the Bidder whose bid has been found to be substantially responsive and has been evaluated as the lowest bidder, provided further that the Bidder is determined to be competent to perform the work-order satisfactorily.

It must be kept in view that no decision will be given by the Tender Evaluation Committee. Any inferences drawn during the meeting of this Committee by the Bidders or their representatives will be their own view and the Institute will not abide by the same.

Supply order shall be awarded to single Bidder on the basis of bid value of total items.

A bid determined as not substantially responsive will be rejected by the NID and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

5.22 **Non-Consideration of Bids for Evaluation.**

Bids that are rejected during the bid opening process due to incomplete documentation or late receipt shall not be considered for further evaluation.

5.23 **Contacting NID.**

Bidder shall not approach NID officers outside of office hours and/ or outside NID office premises, from the time of the Bid opening to the time the Work-order is awarded.

Any effort by a Bidder to influence NID officers in the decisions on Bid evaluation, bid comparison or work-order award may result in rejection of the Bidder's offer. If the Bidder wishes to bring additional information to the notice of the NID, it should do so in writing.

5.24 **Non-Withdrawal of Bids after Submission.**

Bidder shall not be permitted to withdraw his/ her/ its offer or modify the terms and conditions thereof after acceptance of tender. In case the Bidder fails to observe and comply with the stipulations made here in or backs out after quoting the rate, the aforesaid amount PBG/Security Deposit, will be forfeited by the Institute. Besides this, the Bidder may also be liable to be debarred/ blacklisted from participating in the tendering process of NID Ahmedabad's in future and/or suitable penalty may be levied.

5.25 **NID, Ahmedabad's Rights.**

(a) NID Ahmedabad reserves the right to accept/reject any or all the bids in whole or in part and cancel the bidding process without assigning any reason whatsoever and is not bound to accept the lowest tender.

(b) NID Ahmedabad also reserves the right to modify and/ or relax any terms & conditions of this tender document before last date of submission of tenders to safeguard its interest.

(c) Any failure on the part of the Bidder to observe the prescribed procedure and any attempt to canvass/influence NID Ahmedabad for furtherance of his/her interest, the Bidder's quotation will be cancelled forthwith. The decision of NID, Ahmedabad in this regard will be final.

(d) NID, Ahmedabad reserves the right to cancel the tender process without assigning any reason whatsoever, at any stage, in case of any change in

requirement.

(e) NID, Ahmedabad reserves the right to blacklist a Bidder for a suitable period in case the Bidder fails to honor its bid after award of work without sufficient grounds or if found to deal with unfair/ unethical activities in the Institute.

(f) NID Ahmedabad reserves the right to alter the quantities specified in the bid in the event of changes in requirement. No Bidder will be allowed to change the financial bid if NID, Ahmedabad decides to drop any items from the schedule.

(g) All the items, for which financial bids are submitted, should be genuine and of the specified branded company. If the material supplied is found to be of non-genuine/ substandard quality, the same will be returned/ replaced at the cost of the Bidder and the NID, Ahmedabad will not be responsible for any loss to the concerned Bidder for such supply.

(h) **Right to vary Quantities at Time of Award.** NID, Ahmedabad reserves the right to increase/ decrease by 10% the quantity of goods & services originally specified in the tender without any change in unit price or other terms and conditions.

(j) Reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at any time prior to award of Work-order.

5.26 **Security Deposit.**

Bidders are required to submit a SD/performance Bank Guarantee (as per Section IX of this Tender) of 3% of the total order value valid up to the warranty period plus 60 days i.e Validity of the SD to be atleast 60 days beyond 3 years(Comprehensive Warranty period).

Prior to expiration of the period of Bid validity, NID Ahmedabad will notify the successful Bidder and issue a work order/ purchase order after which the Bidder needs to submit the security deposit in the form of Bank Guarantee (BG)/ Demand Draft within fifteen (15) working days of receipt of award of Purchase Order.

Security Deposit will be held as a non-interest-bearing SD with NID for duration of warranty period plus 60 days and will be returned to the selected Bidder after certification by competent authority.

NID Ahmedabad's shall be at liberty to set off /adjust the proceeds of the security deposit towards the loss, if any, sustained due to the Bidder's failure to complete its obligations under the work-order. This is without prejudice to the NID Ahmedabad's right to proceed against the Bidder in the event of the security being not enough to fully cover the loss/damage.

5.27 **Delivery, Installation & Commissioning.**

The Bidder shall be responsible for Shipment, delivery, installation testing and commissioning of CCTV surveillance equipment at the site and for making it operational at no additional charges as follows:-

Work Completion Period : 90 days

If the Bidder fails to complete the work within the stipulated time as mentioned above, NID reserves the right to claim the liquidated damages or even cancel the purchase / work order.

At the discretion of NID Ahmedabad, there will be an acceptance test conducted by NID Ahmedabad / Gandhinagar's technical team members and/or its nominated consultants after installation.

5.28 **Order Cancellation.**

NID Ahmedabad reserves its right to cancel the Purchase / Work Order at anytime by providing 30 day notice assigning appropriate reasons in the event of one or more of the following conditions:

Delay in delivery/ Installation beyond the specified period for delivery/ non submission of security deposit.

Serious discrepancy noticed during the inspection.

NID reserves the right to cancel the Purchase/ Work Order and apply all remedies available under the terms and conditions of respective orders.

5.29 **Software.**

The Bidder will supply all the genuine original Bundled software as applicable. If any software is found to be fake/duplicate, the performance guarantee / security deposit will be forfeited, Bidder shall be blacklisted, and legal proceedings shall be initiated by the Institute.

5.30 **Warranty.**

The bid must include a minimum **three-year comprehensive on-site warranty** including licensing, if any, as per tender specifications.

During the warranty period, If there is a hardware failure the bidder will replace the hardware, re-install the software that were already installed on the hardware, at no additional charge.

The Bidder shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship. Bidder must warrant all components, accessories, spare parts etc. against any manufacturing defects during the warranty period. During the warranty period, Bidder shall maintain and repair/replace at the site all defective components, at no charge to

NID Ahmedabad.

Further, the bidder should provide a minimum 15 years performance warranty certification to NID in form of Indemnity Bond as per Annexure VI for all installed Passive UTP components. Further, NID will not pay any charges for network related documentation, 15-year certification from parent company, testing of cables and test-report etc.

5.31 End-of-Sale / Obsolete Components.

Bidders must bid the latest model that are not announced by the principals as end of sale product or obsolete at the time of shipment. The offer product should not more than one year old manufactured from the date issued purchase order.

5.32 Spare Parts.

If any of the components are not available during the warranty period, in such case Bidder must replace it with equivalent or higher capacity without any extra cost.

5.33 Support.

Bidders are also required to submit details like address of the nearest support center, detail support escalation matrix including OEM, number of service engineers available along with their names, telephone/mobile numbers, for warranty service etc.

5.34 Liquidated Damages.

Delay in completion of work: NID, Ahmedabad shall charge levy LD @ 0.5 % per week of the Purchase Order value of undelivered items for the delay in delivery of quoted equipment at NID Ahmedabad and Gandhinagar campuses beyond 90 days from the date of purchase order, subject to a maximum of 10% of order value. After the maximum penalty value is reached NID, Ahmedabad will initiate necessary action as per terms of the tender including cancelation of order

5.35 Delay in Repair.

During warranty, CCTV surveillance Equipment that is reported to be down on a given date should be either fully repaired or replaced within 2 working days. NID Ahmedabad may raise a complaint/ flag through a telephonically/ electronically or any other mode of communication as NID, Ahmedabad may decide.

In case Bidder fails to repair or replace the CCTV surveillance systems Equipment within 2 working days, there will be a penalty @ 1,000/- per day from the third day.

5.36 Termination.

NID, Ahmedabad may at any time terminate the WO by giving written notice of 30 days to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In this event, termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the NID Ahmedabad.

5.37 Quality Standards.

NID, Ahmedabad is looking for well proven/ designed and quality product. All items quoted should be associated with specific model numbers and names and with literature. Any deviations from the specifications as given should be clearly listed in Annexure called

“deviations” giving reasons thereof.

5.38 **Assignment & Sub-Contracts.**

Assignment by Bidder. The Bidder shall not assign, in whole or in part, its rights and obligations to perform under the Agreement to a third party, except with the prior written consent from NID.

Sub - Contracts. The Bidder shall notify the NID in writing of all subcontracts awarded under the Work- order Agreement. Such notification shall not relieve the Bidder from any liability or obligation under the Agreement. The Bidder shall fully indemnify NID for any claims/damages whatsoever arising out of the Sub-contracts.

5.39 **Service Terms.**

It is mandatory for Bidder to deploy qualified professional to install, commission & maintain the equipment, as defined under scope of work.

5.40 **Indemnity.**

Bidder shall indemnify, protect and save NID, Ahmedabad against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the items supplied by Bidder.

5.41 **Original Hardware and Software.**

Bidder should guarantee that all the components delivered to NID, Ahmedabad are genuine and brand new. In the case of software, the Bidder should guarantee that the software supplied to NID is licensed and legally obtained. All hardware and software must be supplied with their original and complete printed documentation. If any hardware and software is found to be fake, the security deposit will be forfeited, Bidder will be blacklisted and legal proceedings will be initiated by the Institute.

5.42 **Force Majeure.**

Bidder shall not be liable for default or non-performance of the obligations under the work-order, if such default or non-performance of the obligations under this work-order is caused by any reason or circumstances or occurrences beyond the control of the Bidder, i.e. Force Majeure.

For the purpose of this clause, “Force Majeure” shall mean an event beyond the control of the Bidder, due to or as a result of or caused by acts of God, wars, insurrections, riots, earth quake, natural calamity and fire, events not foreseeable but does not include the Bidder’s fault or negligence or carelessness on the part of the Bidder, resulting in such a situation.

In the event of any such intervening Force Majeure, the Bidder shall notify NID in writing of such circumstances and the cause thereof immediately within five calendar days. Unless otherwise directed by NID, the Bidder shall continue to perform/tender/discharge other

obligations as far as they can reasonably be attended/fulfilled and shall seek all reasonable alternative means for performance affected by the Event of Force Majeure.

In such a case, the time for performance shall be extended by a period(s) not less than the duration of such delay. If the duration of delay continues beyond a period of three months, NID AHMEDABAD and the Bidder shall hold consultations with each other in an endeavour to find a solution to the problem. Notwithstanding above, the decision of NID, Ahmedabad shall be final and binding on the Bidder.

5.43 **Integrity Pact.** The pact essentially envisages an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practices in any aspect/stage of the contract. Only those vendors/bidders, who commit themselves to such a Pact with the buyer, would be considered competent to participate in the bidding process. In other words, entering into this Pact would be a preliminary qualification. The essential ingredients of the Pact include:-

- (a) Promise on the part of the Procuring Entity to treat all bidders with equity and reason and not to seek or accept any benefit, which is not legally available.
- (b) Promise on the part of bidders not to offer any benefit to the employees of the Procuring Entity not available legally and also not to commit any offence under Prevention of Corruption Act, 1988 or Indian Penal Code 1860.

5.44 **Resolution of Disputes.**

All disputes and differences of any kind whatsoever, arising out of or in connection with this Bid or in the discharge of any obligation arising under this Bid (whether during the progress of the work or after completion of such work and whether before or after termination, abandonment or breach of the Agreement) shall be resolved amicably. In case of failure to resolve the disputes and differences amicably the matter may be referred to a sole arbitrator mutually agreed upon after issue of at least 30 days' notice in writing to the other party clearly setting out there in the specific disputes. In the event of absence of consensus about the single arbitrator, the dispute may be referred to joint arbitrators, one to be nominated by each party, and the said arbitrators shall appoint a presiding arbitrator. The provisions of the Indian Arbitration and Conciliation Act, 1996, shall govern the arbitration. The venue of the arbitration shall be **Ahmedabad**.

5.45 **Jurisdiction.**

In the event of any dispute not resolved amicably as enumerated in clause above, Ahmedabad shall be considered as the place of execution of this work-order arrangement and only courts in Ahmedabad alone shall have jurisdiction in the matter.

SECTION VI : TECHNICAL SPECIFICATIONS

Camera

SECTION 6 TECHNICAL SPECIFICATIONS for Camera					
Sr. No	Parameter	Min. Require Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
A		SPECIFICATIONS TO BE COMPLIED BY THE			

		OEM OF CAMERA'S			
1.		The camera manufacturer must have its own R&D and manufacturing setup and products shall not be ODM (Original Design Manufacturers) from other vendor. OEM to submit declaration from HQ/manufacture license issued on the name of OEM.			
2.		The OEM should be registered company in India from last 7 years, certificate of incorporation is required as documentary evidence, if OEM is or was part of bigger group then certificate of incorporation either of parent company would be required			
3.		End-of-Life products to be avoided. It is thus important that the OEMs (Original Equipment Manufacturer) are asked to undertake that they would be supporting the equipment for the project life cycle.			
4.		The OEM for Camera should be the full member of the ONVIF Forum. OEM/SI to submit the Copy of the Certificate for the Same at the time of bidding.			
5.		All CCTV Cameras, Video Management System, Video Analytics Solution/Software and any video/image processing solution within overall project offering should be ONVIF Core Specification '2.X' or 'S' compliant and provide support for ONVIF profiles such as Streaming, Storage, Recording, Playback etc. Camera OEM must be full time member of ONVIF and should not be blacklisted by ONVIF.			
6.		All the hardware equipment quoted must be of same make / OEM. However, bidders can offer third party licenses software to comply mentioned technical requirements wherever applicable.			
7.		The camera OEM should have its own /Authorized service centers in at least 1 metro cities in India.			
8.		The Bidder should be authorized by the camera OEM specifically for the RFP. A letter in this regard should be issued by the competent authority from the camera OEM's India office.			
9.		All CCTV and Recording & Monitoring equipment / products shall have quality system compliance with the ISO 9001:2008 /UL or EN Certification. Bidder to submit the certification for the same and the Certificate should be valid in the current date and should have the name of the offered model by the SI/OEM. Non Submission of the same may lead to rejection of the bids			
10.		All offered camera models should be UL/NDAA Compliant Products as per cybersecurity prospective.			

11.	All software and firmware upgrades shall be free of charge during the warranty period.			
12.	All Hardware Cabling etc. that will be required to do the POC needs to be arranged by the OEM and the Bidder and the NID will not pay anything for the same			
13.	The proposed OEM for all equipment should provide MAC ids of the quoted products; the MAC address of the proposed equipment must be registered in the name of the OEM only.			
14.	For all cameras being offered by the Bidder all the components / parts / assembly / software used in the offered hardware and software, should not be complying to GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181-2011; GBT28181-2011 standards. There should be no option to activate or deactivate these standards in the camera web page/Settings. OEM to give specific compliance for the same			
15.	All the cameras and Recording & Monitoring equipment being offered should support IPV4 as well as IPV6			
16.	Camera and NVR must comply with Cybersecurity measures and shall provide on board Cybersecurity feature inbuilt in firmware to protect the hardware against cyber threats such as Brute force, snooping etc.			
17.	OEM or its subsidiary should not be blacklisted by any Ministry of Government of India or by Government of any other State in India or any of the Government PSUs from last 3 years at the time of bidding.			
B	GENERIC SPECIFICATIONS TO BE COMPLIED BY ALL CAMERA'S			
1.	All the equipment of external fitment for PTZ, Bullet and HSD Camera's should be IP-66/ NEMA-4 complied and vandal proof. Certificate for the Housing should be supplied.			
2.	The CAMERA shall have a Rate Control function. This function when enabled, shall allow the camera to maintain the frame rate at a reduced image quality when network congestion occurs. Should network bandwidth become further restricted, the frame rate shall then drop automatically to a suitable speed to maintain image integrity.			

3.		The Camera should support True Day/Night Mode Functionality and should be equipped with sensor ensuring that transition based on the Light conditions from day to night or vice versa happens automatically			
4.		The CAMERA shall incorporate basic analytics at the edge. The following features should be supported: - Intelligent motion detection - Camera Tampering alarm			
5.		Cameras Shall have tampering detection function that alerts the operator if the camera is tampered with. Tampering can include spraying the camera lens, covering it with a cloth, or changing the mounting direction.			
6.		The CAMERA shall be capable of image cropping in all codec's such that only the area of interest is transmitted, to reduce bandwidth and file storage requirements.			
7.		The CAMERA shall be capable of deterring brute force attacks. The camera shall recognize a brute force attack and refuse HTTP requests from an attacker's IP address for a preconfigured number of seconds. The camera shall determine that a brute force attack occurred when a client authentication error occurs five consecutive times.			
8.		The CAMERA shall support QoS technology using DSCP (Differentiated Services Code Point).			
9.		The CAMERA shall support HTTPS client authentication.			
10.		The CAMERA shall support 802.1X.			
11.		The CAMERA shall have an email (SMTP) notification capability which allows the following: Sending an email to pre-specified users when an alarm is triggered by either motion detection, camera-tampering detection, audio detection or sensor input image, which is linked with the alarm trigger, can be attached to the email. Periodical MJPEG image and sending it via email.			
12.		The CAMERA shall have privacy zone masking which blocks out unwanted or prohibited area within the video image to protect privacy. A minimum of 8 mask zones for PTZ camera and 4 zones for rest of the type of cameras. Such capability shall be via Bidder supplied software or the browser-based setup menu.			
13.	Operating Temperature	For indoor camera -10° to 40° C For outdoor camera -10° to 50° C.			

14.	Network Protocols	<p>The following Network Protocols mentioned herewith should be supported and all the cameras offered should be IPv6 ready from day one. The protocols are mentioned herewith :</p> <p>IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, , CoS, QoS, SNMP, 802.1X ,SSL/TLS, ARP, NTCIP/CHAP CIFS/SMB/FTP</p>			
15.	On-board recording (card slot to be available)	It should have a slot for inserting a SD cards, which will record the videos for a minimum period of 4 Hours in case of Network connectivity failure and the same will be transmitted back to the Server once the Network is restored. Bidder to define the maximum storage capacity of the SD cards which can be supported by the camera slot.			
16.	On board Ethernet 10Base-T/100 Base-TX (RJ-45)	It should have an On-board Network Interface Port which should a transmission speed of 100 Mbps			
17.	Powering Options.	It should have the capability to be powered by POE/POE+ Power from the switch. Bidder to mention the POE Class and Wattage consumption for each of the Camera being offered.			
18.	Safety approvals	<p>It should comply to the any one or more safety standards as mentioned below :</p> <p>UL /EN/CE/LVD/ FCC/ Class A/ VCCI/ C-Tick/BIS. Bidder to attach the necessary Certifications for the same.</p>			
19.	I / O ports:	For interconnecting external Relay operated devices the camera should have at least one Input and one Output port for interconnecting or triggering ALARM based output if required			
20.	Web Browser Functionality	The Camera should have inbuilt Webserver for remote viewing / settings etc			
21.	Image Settings	<p>The camera should support Date / Time Superimpose on Live image.</p> <p>The should support Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks.</p> <p>It should support 3D Digital Noise Reduction (DNR) for bettering the quality of the image</p>			
22.	Compression Codec	It should support all compression modes MJPEG, & H.264 and H.265 or similar proprietary protocol at 25/30/60 (if the camera supports 60 FPS) FPS at			

		1920x1080 for 2 MP and 2560x 1920 for 5MP. For any compression methodology selected the resolution, parameters should not be comprised and when the recorded pictures are viewed at that time picture quality should not be comprised. Both the Camera and the S/w should support H.264 Codec for space saving and better viewing of stored images			
23.	Multiple Streaming	The cameras should support user-selectable any combination of available video codec i.e MJPEG, & H.264/H.265 for triple streaming and out of the three streams at least two should be H.264/H.265 or similar which will offer better compression. For Video Streaming VBR (Variable Bit Rate) and CBR (Constant Bit Rate) should be supported.			
24.	Inbuilt Recording facility to Store PRE and POST Alarm recording	The camera should have the Facility for Pre and Post Alarm Recording within IP camera.			
25.	Alarm Triggers	The camera should generate triggers based on Motion detection, manual intervention, using the digital input, pre-configured periods , on system boot, for giving recording notification, in case of camera tampering detection, in case of audio detection, for MicroSD card life expectancy			
26.	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card			
		File upload via HTTP, SMTP, FTP, NAS server and MicroSD card			
27.	Humidity	Camera should function in 90% Humid atmosphere			
28.	Certifications	All the Camera must have at least three or more of the above certifications:			
		CE, LVD, FCC Class B, VCCI, C-Tick, UL			
29.	Security Features	The camera's being offered should: facilitate administrator to get user access logs,			
		facilitate administrator to update the certificates thru centralized certificate management system, have brute force delay protection, have a signed firmware			
C	2 MP CAMERA'S				
C.1	SPECIFICATIONS FOR FULL HD 2 MP IP IR DOME TYPE CAMERA WITH FIXED LENS				
1	Imager/CD	The images should be CMOS 1/3" or better and the same should support Wide Dynamic Functionality should be WDR Pro (minimum 110 Db or better) type only			

2	Auto- Iris Type	Fixed			
3	Number of effective pixels:	It should support a pixel resolution which is greater or equal 2 Mega Pixel or greater			
4	Lens	The camera should be loaded with Fixed focal length which should be 2.8mm or better			
5	Viewing Distance	Minimum 15 metres or better at 0 lux using Built in IR illuminators.			
6	Minimum illumination :	The camera should operate in minimum light conditions and should give Colour images in the Day mode when the light illumination is around 0.4 Lux or greater .and should support B/W Viewing in the Night when the light condition deteriorates at 0 Lux with IR on. In case IR is not then B/w viewing should be possible at 0.01 Lux light			
7	Field of View	Horizontal: 100 degree or better Vertical : 50 degree or better			
8	Video Resolution & frame rate:	Up to 1920X1980 on all available compression codec i.e. JPEG & H.264, H.265 for 30 fps			
9	Support for PTZ Functionality	Should support Digital Zoom. specify the maximum zoom supported			
10	Electronic shutter :	It should support Electronic Shutter speed which is in the range of 1/25 to 1/10,000s			
11	Protection	Minimum IK04 or better Inbuilt along with the Camera. Bidder to specify the same			
12	S/N Ratio	Minimum 50 Db or better			
C.2	SPECIFICATIONS FOR FULL HD 2MP IP IR DOME TYPE CAMERA WITH VARIFOCAL LENS				
1	Imager/CCD	The images should be CMOS 1/3" or better and the same should support Wide Dynamic Functionality and the minimum should 120 Db or more			
	Auto- Iris Type	P-Iris/DC Iris			
2	Number of effective pixels:	It should support a pixel resolution which is greater or equal 2 Mega Pixel or greater			
3	Lens	The camera should be loaded with Vari focal lens with remote focus or better. Bidder to specify the supported focal length range			
4	Viewing Distance	Maximum 30 mtrs at 0 lux using Built in IR illuminators			

5	Minimum illumination :	The camera should operate in minimum light conditions and should give Color images in the Day mode when the light illumination is around 0.28 Lux or greater .and should support B/W Viewing in the Night when the light condition deteriorates at 0 Lux with IR on. In case IR is not then B/w viewing should be possible at 0.01 Lux light			
6	Field of View	Horizontal : 34 to 90 degree or better Vertical : 20-48 degree or better			
7	Video Resolution & frame rate:	Upto 1920X1980 on all available compression codec i.e. JPEG & H.264, H.265 for 30 fps			
8	Support for PTZ Functionality	Should support Digital Zoom. Bidder to specify the maximum zoom supported			
9	Electronic shutter :	It should support Electronic Shutter speed which is in the range of 1/25 to 1/10,000s			
10	Protection	Bidder to specify the same			
C.3	SPECIFICATIONS FOR FULL HD 2MP IP PTZ IR DOME TYPE CAMERA				
1	Imager	The images should be CMOS 1/3" or better and the same should support Wide Dynamic Functionality and the same should be greater than 120 Db			
2	Iris Type	P Iris/DC Iris			
3	Resolution	It should support a pixel resolution which is greater or equal 2 Mega Pixel or greater			
4	Minimum illumination (at F1.6, 30 IRE, Shutter Speed 1/30):	The camera should operate in minimum light conditions and should give Color images in the Day mode when the light illumination is around .7Lux.and should support B/W Viewing when the light condition deteriorates at .007 Lux. It will be 0 Lux with IR On.			
5	Viewing Distance	Minimum 150 metres at 0 lux. The IR Should be Smart IR and shall align itself in line with Lens when the same is Zoomed; PAN or Tilted.- Bidder to give specific compliance for the same			
6	Electronic shutter :	It should support minimum Electronic Shutter speed, which is in the range of 1 to 1/30,000s. Bidder to mention the exact shutter speed they offer for each of the camera being offered			
7	Field of View	Horizontal : 3 to 60 degree or better Vertical : 2 to 35 degree			

8	Optical Zoom & lens	30 x or better. The lens should have the focal length to support 30x optical length. Bidder to specify the Focal Length of the lens being used			
9	PAN Range	360 deg endless			
10	Tilt range	0° to 90° auto flip upto 180° or better.			
11	PAN & TILT speed	Tilt Speed: 1°- 200° per second or better, Pan speed: 0° - 180° per second.			
12	No. of pre-sets	Minimum of 250 positions			
13	Housing / Protection Enclosure	IP66 and IK 10 Complaint			
C.4	SPECIFICATIONS FOR FULL HD 2 MP IP IR BULLET TYPE CAMERA WITH VARI FOCAL LENS				
1	Imager/C CD	The images should be CMOS 1/2.8" or better and the same should support Wide Dynamic Functionality and the minimum should 120 Db or more			
2	Auto- Iris Type	P-Iris/DC Iris			
3	Number of effective pixels:	It should support a pixel resolution which is greater or equal 2 Mega Pixel or greater			
4	Lens	The camera should be loaded with vari focal lens with remote focus which should be 4-9 mm or better			
5	Viewing Distance	Maximum 30 mtrs at 0 lux using Built in IR illuminators			
6	Minimum illumination :	The camera should operate in minimum light conditions and should give Color images in the Day mode when the light illumination is around 0.4 Lux or greater .and should support B/W Viewing in the Night when the light condition deteriorates at 0 Lux with IR on. In case IR is not then B/w viewing should be possible at 0.02 Lux light			
7	Field of View	Horizontal : 46- 100 degree or better Vertical : 26-52 degree or better			
8	Video Resolution & frame rate:	Up to 1920X1980 on all available compression codec i.e. MJPEG & H.264, H.265 for 30 fps			
9	Support for PTZ Functionality	Should support Digital Zoom. Bidder to specify the maximum zoom supported			
10	Electronic shutter :	It should support Electronic Shutter speed which is in the range of 1/25 to 1/10,000s			

11	Protection	IP66 and IK 10 Complaint			
C.5	SPECIFICATIONS FOR FULL HD 5 MP IP IR BULLET TYPE CAMERA WITH VARI FOCAL LENS				
1	Imager/CCD	The images should be CMOS 1/2.9" or better and the same should support Wide Dynamic Functionality and the minimum should 120 Db or more			
2	Auto- Iris Type	P-Iris/DC Iris			
3	Number of effective pixels:	It should support a pixel resolution which is greater or equal 5 Mega Pixel or greater			
4	Lens	The camera should be loaded with vari focal lens with remote focus, Bidder to specify the focal length			
5	Viewing Distance	Maximum 30 mtrs at 0 lux using Built in IR illuminators			
6	Minimum illumination	The camera should operate in minimum light conditions and should give Color images in the Day mode when the light illumination is around 0.1 Lux or greater .and should support B/W Viewing in the Night when the light condition deteriorates at 0 Lux with IR on. In case IR is not then B/w viewing should be possible at 0.02 Lux light			
7	Field of View	Horizontal : 32- 88 degree or better Vertical : 24-45 degree or better			
8	Video Resolution & frame rate:	Bidder to specify the supported resolution and frame rate is available for all compression codetcs ie. JPEG, H265/H 264			
9	Support for PTZ Functionality	Should support Digital Zoom. Bidder to specify the maximum zoom supported			
10	Electronic shutter :	It should support Electronic Shutter speed which is in the range of 1/25 to 1/10,000s			
11	Protection	IP66 and IK 10 Complaint			
C.6	SPECIFICATIONS 180 DEGREE FISH EYE CAMERA				
1	Imager/CCD	The images should be CMOS 1/2.5" or better and the same should support Wide Dynamic Functionality and the same should be equal or greater than 120 Db			
2	Number of effective pixels:	It should support a minimum pixel resolution of 12 Megapixels			

3	Video Resolution & frame rate:	Up to 12 Mega Pixel on all available compression codec i.e. MJPEG, H.265/H.264. Frame Rate 30 fps on all Compression codes should be supported			
4	Lens	Fixed Focal Lens 2.8mm or better			
5	Minimum illumination (at F2.2, 50 IRE, Shutter Speed 1/50):	The camera should operate in minimum light conditions and should give Color images in the Day mode when the light illumination is around 0.6 Lux. and should support B/W Viewing in the Night when the light condition deteriorates at .02 Lux.			
6	Electronic shutter :	It should support minimum Electronic Shutter speed, which is in the range of 1/5 to 1/10,000s. Bidder to mention the exact shutter speed they offer for each of the camera being offered			
7	Field of View	Horizontal : 180 degree			
		Vertical : 90 degree			
8	Video Resolution & frame rate:	Up to 2816x2816 on all available compression codec i.e. MJPEG, H.265/H.264, for 30 fps.			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)					
Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
		Hardware Specifications			
1.		The Recording + Monitoring hardware & Software being offered should comply to the latest ONVIF Profile S and G			
2.	Hardware Design	The entire hardware should base on Enterprise server grade architecture with redundant Power Supplies, Fans etc. Bidder to mention which components are redundant			
3.	Processor	Minimum Intel Xeon Quad-core processor 3.1 GHz, 8MB Cache or Higher Or as per OEM hardware design suitable as per architecture			
4.	Memory	8GB or Higher			
5.	HDD with OS	Enterprise class hard disk 1TB/(SDD+SATA combo), 3.5" 7200 RPM, SATA, 32 MB Cache or Higher. For SSD+SATA Combo Bidder to give the breakup of SSD and SATA storage capacities as per OEM hardware design suitable as per architecture			
6.	Operating System	Latest Windows Server edition 64 bit systems - Bidder to specify the model no.			
7.	Network	minimum Dual Gigabit 1000 Tx LAN ports or higher			
8.	RAID Controller	Embedded RAID Controller to support atleast for RAID 1/6.			
9.	Condition Monitoring	Fault/error/overload and alarm, bidder to conform components will ne monitored and what will be generated			
10.	Storage Bay Capabilities	Support 16 x 3.5" enterprise hard disk RAW Storage capacity to store the videos for a particular timing mentioned. If OEM having less no of slots with higher capacity HDD's then bidder can offer the same as per the required configuration and it will not be considered as an non compliance			
11.	Recording Parameters	Frames: 15 fps Environment: Indoor or Outdoor based on the location of the Camera Recording Time 24 Hours a day			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)

Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
		Resolution Full HD for Dome, PTZ and Bullet camera, 5-10 MP for Fish eye			
12.	Max. Storage Capacity	Max. Usable Storage Capacity up to 70 to 80 TB for Ahmedabad location and 50 to 60 TB for Gandhinagar that will facilitate 15 day of recording for 24x7 basis Should be able to sustain 2 Drive Failure.			
13.	HDD Plugin	Hot-Swappable tray x16			
14.	Disk Management	Create, Format and Remove Disk			
15.	Video Clip Export	USB Dongle (FAT Format), NAS (SMB & CIFS) or any external drive			
16.	Schedule Backup	NAS (SMB & CIFS) any external drive			
17.	External Interfaces	Minimum 6 at least 2 should be USB 3.0			
18.		Microphone audio jack input at least 01			
19.		3.5 Line input audio jack input at least 01			
20.		3.5 Line output audio jack input at least 01			
21.	Video Out ports	Bidder to specify video output ports available along with the quantity for each port			
22.	Graphics Decoding capability	Should have embedded Graphics Decoding facility which could be Hardware/Software based. Bidder to give the compliance for the same			
23.	Decoding Capacity	For H.265/H.264 the below mentioned decoding facilities should be supported			
24.		2560x1920 @ 30 fps (1-CH)			
25.		1920x1080 @ 120 fps (4-CH)			
26.		1280x720 @ 240 fps (8-CH)			
27.		1280x720 @ 480 fps (16-CH)			
28.		720x480 @ 960 fps (32-CH)			
29.	Supported Display Resolutions	Minimum HDMI: 1920x1080 and should support all resolution that are supported for cameras			
30.		DVI: 1920x1080			
31.		DP: 4096x2304			
32.	Firmware Update	Manual			
33.	Operating Temperatur	10 to 35 degree			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)

Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
	e				
34.	Humidity	10 to 95% or better			
35.	Warranty	36 Months from the date of installation			
36.	Patches and Upgrades	Free of cost during the warranty period			
		Software Specifications which would be embedded in the Hardware for Camera Management and Video Recording , Playback etc.			
37.		Recording Parameters			
38.	Maximum Channel	should have licenses for 190 Channels/cameras for Ahmedabad and 120 Channels/cameras for Gandhinagar from day one			
39.	Record Throughput (MB)	The solution being offered should facilitate recording of all cameras simultaneously in a blocking manner. Bidder to give the details of the recording throughput supported.			
40.	Network Throughput (MB)	The solution being offered should facilitate recording of all cameras simultaneously in a blocking manner. Bidder to give the details of the Network throughput supported.			
41.	Audio Format	G.711/G.726/AMR/AAC			
42.	Video Format	H.265/H.264 AVC/H.264 SVC/MJPEG			
43.	Video Resolution	minimum Up to 12MP or higher			
44.	Recording	Pre-Record: 5 sec to 15 sec			
45.	Time (sec.)	Post-Record: 12 to 60 sec			
46.	Recording Stream	Single			
47.	Recording Mode	Recording in Continuous, Schedule, Manual, Event, Activity Adaptive Streaming should be supported			
48.	Recording Setting	Recycle (unit: Day)			
49.	Recording Path	Local Path			
50.	Record Video	3GP			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)

Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
	Format				
51.	Watermark	Supported			
		Live View using the Client application on PC or Workstations			
52.	Stream Application	Constant/Auto Adaptive Stream			
53.	Audio Capability	One Way			
54.	Live View Display	At least 32 Channels per display and minimum 30 channels per display			
55.		Multiple Layout Display: bidder to give the detail of all supported layouts on display			
56.	Monitor Enhancement	Should facilitate monitoring using the below mentioned features : Drag & drop, remote I/O control, PiP (digital zoom), Zooms the selected area of the image instant replay- Replay past 10sec recording video display mode (aspect ratio, hide borders, keep top/down borders), video enhancement (basic mode: brightness, contrast, saturation, hue; intelligent mode: defog, rain, snow, fire/smoke)			
57.	PTZ Control	Panel Control			
58.	PTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group)			
59.	Snapshot	JPEG			
60.		Playback using the Client application on PC or Workstations			
61.	Playback Display	minimum 16 Channels be played back simultaneously			
62.		Multiple Layout Display: bidder to give the detail of all supported layouts on display			
63.	Playback Control	Play, rewind, pause, stop, next/previous video start, next/previous frame, 1/8X ~ 16X speed control, bookmark			
64.	Monitor Enhancement during	Should facilitate monitoring using the below mentioned features : Drag & drop,			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)

Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
	playback	remote I/O control, PiP (digital zoom), Zooms the selected area of the image instant replay- Replay past 10sec recording video display mode (aspect ratio, hide borders, keep top/down borders), video enhancement (basic mode: brightness, contrast, saturation, hue; intelligent mode: defog, rain, snow, fire/smoke)			
65.	Snapshot	BMP/JPEG			
66.	Video Clip Export	AVI/ 3GP/EXE			
67.		Alarm Management			
68.	Alarm Period (sec.)	Max. 30			
69.	Alarm Filter	Name, time, source, event type, state			
70.	Alarm Setting	Live View alarm notification: fixed & popup, alert sound			
71.	Schedule Type	Continuous, schedule, manual			
72.	Camera Event	Motion, DI/O, video lost/restore, PIR, tampering, overheating, IR, PPTZ, line crossing detection, loitering detection, field detection, audio detection, monitoring usage of SD card life expectancy detection, shock detection, ONVIF motion event , ONVIF DI/O, ONVIF video lost/restore.			
73.	Camera Status	Connection status, recording status, recording error			
74.	Substation	Substation connection status, substation DI/DO trigger			
75.	Storage Status	Storage connection status, storage capacity status			
76.	Station Status	License status, network status, virtual memory status			
77.	External Devices Event	DI/O (with I/O box)			
78.	Action	Email, start recording, move to pre-set location, set DO, HTTP & client notification			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)

Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
79.	Alarm State for Management	New, assigned, in progress, resolved, closed, later, reject, ignore			
80.	Alarm Result Export	.csv File			
81.	Marked	Add, remove, direction control, PTZ control & indicator Live View			
82.	Event Notification	Event icon light flash, show live streaming on eMap			
83.	Logs	System, Recording, User, Error			
84.		User Management			
85.	User Authentication models	Basic Account / Windows AD Account			
86.	User Account Time Limit	No limitation, By Time & By Day			
87.	User Level	Administrator / View only/ Guest. If any other options available Bidder to specify the same			
88.	Date Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time			
89.		Configuration Backup/Restore			
90.	Restore Default	Supported			
91.	Backup/Restore(Configuration)	Supported			
		Camera Integration			
92.	Discovery	thru Manual and Search Mode			
93.	Video (Media) Setting	Facilitates selection of Compression codecs, Resolution, FPS, Video Quality			
94.	Image Setting	Image Display, Image Adjustment			
95.	PTZ Control	Thru Panel Control or any windows compatible Joystick (Bidder to give compliance related to the compatibility part)			
96.	PTZ	Direction Control, Home, Pre-set, Patrol			

SECTION 6 TECHNICAL SPECIFICATIONS FOR RECORDING AND MONITORING OEM EQUIPMENTS(H/W & S/W)					
Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Page Ref-Supporting
	Operation	(Group)			
97.	Motion Detection	should be Supported			
98.	ONVIF Core Spec	Version 2.2 or higher.			
99.	ONVIF Stream	Video(H.264 & MJPEG)			
100	ONVIF Recording	Continuous, Schedule, Manual			
101	ONVIF Discover	Discover the other brand camera through "Insert Camera & Batch Insert"			
102		Other Device Integration for manageability and monitoring			
103		Bidder to specify if they can discover other devices other than Camera's in the Software from viewpoint of manageability			
		Management			
104		If multiple device are offered as a part of the solutions and any management software is required additionally to facilitate NID for managing the viewing from different devices then the same should be included in the offering and commercials should be offered in the pricing of the hardware software bundle			

Structured cabling components: -

Note: For all installed Passive UTP components, the bidder will give minimum 15 years performance warranty certification to NID in form of Indemnity Bond as per **Annexure VI**. NID will not pay any charges for network related documentation, 15-year certification from parent company, testing of cables and test-report etc.

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS					
Sr_ No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
A		OEM Pre qualifications			

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS					
Sr_ No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
1		OEM should have direct presence in India more than at-least 10 years (Supporting documents required)			
2		OEM should be a member of Telecommunications Industry Association (TIA) Information and Communications Technology (ICT) Companies ICT Green Initiative to support energy efficient environment			
3		OEM should submit all the required standard reports and certificates along with the submission of bid and in case the OEM fails to submit any document then the bid will be disqualified.			
4		OEM should have at least One RCDD certified person			
5		All networking passive material like Copper Cable; Accessories for Copper Cable should be from one OEM make only.			
6		If the Bidder is not an OEM and SI is bidding SI should be authorized by Bidder with an authorization certificate. If the same is not there the bid is subject to disqualification			
B		General notes			
		This document defines the cabling system and subsystem components to include cable, termination hardware, supporting hardware, and miscellany required to supply, a complete cabling infrastructure supporting data, voice and video.			
C		REFERENCE STANDARDS			
		Design, manufacture, test, and install data distribution systems per manufacturer's requirements and in accordance with NFPA 70 (National Electric Code), state codes, local codes, requirements of authorities having jurisdiction, and particularly the following ANSI/TIA/EIA Standards			
1		ANSI/TIA/EIA/568-C.1, Commercial Building Telecommunications Cabling Standard – 2009			
2		ANSI/TIA/EIA 568-C.2, Copper Cabling Components Standard			

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS

Sr_No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
3		ANSI/TIA/EIA-606-A, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings			
4		ANSI/J-STD-607-A, Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications			
5		Building Industries Consulting Services International (BICSI) Telecommunications Distribution Methods Manual (TDMM)			
6		ANSI/TIA-942, Telecommunications Infrastructure Standard for Data Centres			
D		Grounding Considerations			
1		Grounding system shall be an integral part of the telecommunications wiring system. In addition to helping protect personnel and equipment from hazardous voltages, the grounding system shall reduce the effect of electromagnetic interference ((EMI) to and from the telecommunications wiring system.			
2		Grounding shall meet the NEC requirements and practices or local authorities or codes whichever impose a more stringent requirement.			
E		CAT6 CABLE SPECIFICATIONS			
1.		UTP LSZH Cable, TIA-568C.2, Category-6 , IEC-60332-1/UL 1581 (305 Mtrs./1000 feet per Box) compliance with "ISO/IEC 11801:2002/Amd 2:2010 Cat 6 TIA-568-C.2 Cat 6, EN 50173-1:2011 class E, ETL verified FIRE Propagation Tests, LSOH Sheath: CSA FT1, IEC 60332-1/60332-2/60332-3, 61034"			
2.		Minimum Specifications			
3.	Material:				
4.	Conductors	23 AWG solid bare copper or better			
5.	Insulation	Polyethylene			
6.	Jacket	LSZH - Shall be Fire-Retardant, Low-Smoke & Zero-Halogen as per IEC 60332-1, IEC 61034-2 & IEC 60754-1 respectively			
7.		Shall be 4-pair Unshielded twisted pair with a cross filler/ isolator (+), meeting Category 6 tested till 600 MHz as per TIA-568C.2. (ETL			

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS

Sr_No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
		Report require).			
8.		Should comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice.			
9.		The Category 6 Solution shall fully comply with the link segment specifications for 1000 Base-TX in addition to the ANSI/TIA and ISO/IEC Category 6 requirements.			
10.		Shall have the length printed on the outer jacket of the cable after every meter.			
11.		Shall be RoHS Compliant			
F		CAT6 UTP JACK SPECIFICATIONS should be certified by any competent authority and it should be compliant with necessary national/ international standards.			
1		PCB based Information Outlet (I/O) RJ45, TIA-568C Category-6, Termination of Category-6 UTP Cable, UL listed			
		Minimum Specifications			
2		Shall conform to Category-6 as per the EIA/TIA-568C.2			
3		Shall support network line speeds up to 1 Gbps			
4		Shall have RJ-45 type connector with strain relief for securing IDC contacts from external forces. Shall have a feature to maintain the bend radius of the cable while entering the jack.			
5		Shall have minimum durability of 750 mating cycles and 20 termination cycles			
6		Shall Snap into standard faceplates, surface-mount boxes, consolidation point boxes, and Modular Panels, Shutter capability should be at user side.			
7		Shall be mountable at either 90 degrees (straight) or 45 degrees (angled) in any			

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS					
Sr_ No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
		faceplate.			
8		Shall be certified by independent labs like ETL/GHMT for compliance to EIA/TIA-568C.2, (Report required)			
9		Shall be RoHS Compliant			
10		Shall have minimum 15-Year Extended Product Warranty and system warranty			
G		CAT6 UTP JACK PANEL SPECIFICATIONS			
		UTP Jack Panel UL listed, Unloaded with 24 nos. UTP ports for PCB based IO Jacks (RJ45, TIA-568C Category-6, Installation and Termination of all 24 nos. Category-6 UTP Cable			
		Minimum Specifications			
1		Shall be unloaded with individually replaceable 24 nos. Category-6 I/O Jacks complying with TIA-568.C.2			
2		Shall be 19" rack mountable and of 1U height & complete with all mounting accessories, UL listed			
3		Shall have labels for identification of ports			
4		Should have integrated bonding bar for grounding individual jacks			
5		Shall be RoHS Compliant			
6		Shall have minimum 15-Year Extended Product Warranty and System Warranty			
7		Shall be having a 6 port module construction for better cable dressing at the rear			
8		Shall have Comprehensive port numbering on front			
9		Shall be suitable for loading unshielded & shielded jacks for different category systems (CAT 6 & CAT 6A)			
10		Shall be certified by independent labs like ETL/UL etc.			
11		Cable Manager to be provided on the back side of patch panel.			
H		CAT6 1G WORKSTATION / EQUIPMENT CORDS SPECIFICATIONS			

SECTION 6 TECHNICAL SPECIFICATIONS STRUCTURED CABLING COMPONENTS					
Sr_ No	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
		<u>Cat 6 UTP Patch Cable, TIA-568C Category-6, UL-listed</u>			
	Minimum Specifications				
1		Length shall be available in 1/2/3/5 meters or equivalent length in feet			
2		All patch cords shall conform to Category 6 & conductor shall be stranded for better flexibility			
3		Shall support network line speeds up to 1 Gbps			
4		Shall have RJ-45 jacks with transparent plugs at both the ends			
5		All patch cords shall be factory crimped and packed			
6		Shall be RoHS Compliant			
7		Shall have LSZH jacket for safety measures			
8		Shall have a transparent / clear boot			
9		Shall support applications such as 155 Mbps ATM, token ring & VOIP.			
10		Shall have minimum 15-Year Extended Product Warranty and system warranty			
11		Colours- Blue, Grey, Yellow, Red & Orange			

Switching:-

SECTION 6 TECHNICAL SPECIFICATIONS					
SPECIFICATIONS FOR SWITCHING - HPE					
Ser	Parameter	Specification	Compliance Y/N	Deviation	Ref. Page
1		The make and model of the existing Switching Stacks are mentioned in the existing infrastructure details " Section -1 Page No. 5 " The stack will be expanded by adding the switches and Bidder has to provide the switch along with all accessories including power cable, stacking cable and all other accessories			
2		Three years warranty should be provided on all the hardware being provided			

Display:-

SECTION 6 SPECIFICATIONS FOR Large format Display					
Sr. No	Parameter	Specifications	Compliance Y/N	Deviation	Ref Page no.
1	H-Scanning Frequency	Should be in the band of 30 - 81KHz			
2	Maximum Pixel Frequency	Minimum 148.5MHz			
3	V-Scanning Frequency	Should be in the Band 48 - 75Hz			
PANEL					
4	Diagonal Size	48/49"			
5	Type	IPS			
6	Resolution	1920 x 1080 (16:9)			
7	Brightness	Minimum 450nit			
8	Contrast Ratio (Dynamic)	Minimum 1100:1 in AV Mode			
9	Viewing Angle(Horizontal/Vertical)	Minimum 178 / 178°			
10	Operation Hours	24 Hrs.			
INPUT					
11		DP DVI-D (Dual Link) Component, CVBS, HDMI x3, Stereo Mini Jack Connectivity, USB 3.0			
OUTPUT					
12	Video	DP			
13	Audio	Stereo Mini Jack			
14	External Control	RS232C (In / Out), RJ45			
GENERAL FEATURES					
15	Special	Built in Speaker (10 watts + 10 watts), Plug and Play (through USB), PIP / PBP, arrow Bezel, Light Weight,			
16	Wi-Fi	Should have built in Wi-Fi			
17	Mirroring support	Should support Mirroring from other devices using Wi-Fi and BLE			
18	Operating temperature	0 to 40 degree			
19	Humidity	10 to 80 %			

SECTION VII**UN-PRICED BILL OF QUANTITIES – CCTV SURVEILLANCE, PASSIVE, SWITCHES AND DISPLAY**

SECTION 7					
UNPRICED BOQ SURVEILLANCE AND NETWORKING COMPONENTS INCLUDING CAMERAS, VMS, SWITCHES, DISPLY AND PASSIVE CABLING COMPONENTS AT NATIONAL INSTITUTE OF DESIGN AHMEDABAD AND GANDHINAGAR CAMPUSES					
Sr No	Description	UOM	Qty	Make	Model
A	CAMERA'S				
1	H.265 compliant 2 MP IR Fixed Dome supporting full HD resolution with all required accessories for mounting and installation	Set	35		
2	H.265 compliant 2 MP IR Vari Focal Dome Camera's and supporting full HD with all required accessories for mounting and installation	Set	57		
3	H.265 compliant 12 MP Camera facilitating 180 degree Panoramic view with all required accessories for mounting and installation	Set	3		
4	H.265 compliant 2 MP IR Vari Focal Outdoor ready Bullet Camera's supporting full HD resolution with all required accessories for mounting and installation	Set	40		
5	H.265 compliant 5 MP IR fixed Outdoor ready Bullet Camera's supporting full HD resolution with all required accessories for mounting and installation	Set	45		
6	H.265 compliant 2 MP IR Outdoor ready PTZ Camera with 30X Zoom supporting full HD resolution with all required accessories for mounting and installation	Set	3		
	RECORDING AND MONITORING HARDWARE AND SOFTWARE				
1	Recording and Monitoring hardware and software as per the specifications for Ahmedabad location	Set	1		
2	Recording and Monitoring hardware and software as per the specifications for Gandhinagar location	Set	1		
B	SWITCHES				

SECTION 7					
UNPRICED BOQ SURVEILLANCE AND NETWORKING COMPONENTS INCLUDING CAMERAS, VMS, SWITCHES, DISPLY AND PASSIVE CABLING COMPONENTS AT NATIONAL INSTITUTE OF DESIGN AHMEDABAD AND GANDHINAGAR CAMPUSES					
Sr No	Description	UOM	Qty	Make	Model
1	24 Port POE+ Switches along with 10G DAC Cable for stacking as per the specifications	Set	11		
C	PASSIVE				
	CAT 6 Cable BOX (305 Mtrs)	Nos	45		
	CAT 6 IO - for 1G Operation	Nos	400		
	Face Plate Simplex for CAT6 IO	Nos	200		
	Surface Mount Box compatible with CAT6 face plates	Nos	200		
	unloaded 24 Port Jack Panel for CAT6 IO	Nos	16		
	3 ft. Category 6 Patch Cord	Nos	200		
	7 Ft. Category 6 Patch Cord	Nos	200		
	7/10 Mtr. Category 6 Patch Cord	Nos	100		
D	Display				
1	Display as per the specifications	Nos	4		

Accessories for the Cabling and Camera

SECTION 7					
UNPRICED BOQ FORMAT FOR NID AHMEDABAD AND GANDHINAGAR SURVEILLANCE PROJECT (ACCESSORIES)					
Sr_No	Description	UOM	Qty	Make	Model
1	SITC of 40mm thick, 6 Kg ISI Make HDPE Pipe for cable Laying with all accessories	Mtr.	300		
2	SITC of Pre-Fabricated Concrete Chambers 900mm wide x 850 high with 50 mm Lead Cover and same will be mounted on 100 mm thick cover inside. Over this 1.5 Ft of Mud Cover	Nos.	3		
3	SITC of 4" GI Pipe for Horizontal Boring CLASS B with Couplers and accessories	Mtr.	40		
4	SITC cable Route Markers - 1 per 100 Mtr	Mtr.	5		

SECTION 7**UNPRICED BOQ FORMAT FOR NID AHMEDABAD AND GANDHINAGAR SURVEILLANCE PROJECT (ACCESSORIES)**

Sr_No	Description	UOM	Qty	Make	Model
5	SITC of 2mm thick, heavy duty, ISI mark PVC conduit pipe of 25mm diameter with all accessories with require specification : UPVC HMS Type Conduits and accessories manufactured in accordance with IS: 9537 Part 3, BS: EN 61386 – 21 for UPVC conduits, IS: 3419 and BS: 4607 for UPVC fittings.	Mtr.	3000		
6	SITC of 2mm thick, heavy duty, ISI mark flexible PVC conduit pipe of 25mm diameter with all accessories with require specification : UPVC HMS Type Conduits and accessories manufactured in accordance with IS: 9537 Part 3, BS: EN 61386 – 21 for UPVC conduits, IS: 3419 and BS: 4607 for UPVC fittings.	Mtr.	600		
7	SITC of 2mm thick, heavy duty, ISI mark PVC conduit pipe of 32mm diameter with all accessories with require specification : UPVC HMS Type Conduits and accessories manufactured in accordance with IS: 9537 Part 3, BS: EN 61386 – 21 for UPVC conduits, IS: 3419 and BS: 4607 for UPVC fittings.	Mtr.	2000		
8	SITC of 2mm thick, heavy duty, ISI mark PVC flexible conduit pipe of 32mm diameter with all accessories with require specification: UPVC HMS Type Conduits and accessories manufactured in accordance with IS: 9537 Part 3, BS: EN 61386 – 21 for UPVC conduits, IS: 3419 and BS: 4607 for UPVC fittings.	Mtr.	500		
9	SITC of ISI make 100*50 mm trucking with all accessories (Trunking manufactured in accordance with Indian Standards IS: 14927 Part 2 and BS: EN 50085-2-1)	Mtr	50		
10	SITC of ISI outdoor junction boxes for cameras	Nos	40		

SECTION 7					
UNPRICED BOQ FORMAT FOR NID AHMEDABAD AND GANDHINAGAR SURVEILLANCE PROJECT (ACCESSORIES)					
Sr_No	Description	UOM	Qty	Make	Model
11	SITC of 6 mtr high 114 mm dia B class hot deep GI pole with 30mm x 30mm x 15mm MS Base plate as required with 86 micron.	Nos	8		
12	Soft Soil Digging (Minimum 2 feet deep)	Mtr.	300		
13	Hard Soil Digging	Mtr.	100		
14	12U Wall mount rack with rack dressing	No.	2		
15	Jari Work	Mtr.	1200		

Installation Components

SECTION 7					
UNPRICED BOQ FORMAT FOR NID AHMEDABAD AND GANDHINAGAR SURVEILLANCE PROJECT (INSTALLATION COMPONENTS)					
Sr_No	Description	UOM	Qty	Make	Model
1	UTP Cable laying charges in Pre-laid PVC Conduit	Mtr.	13000		
2	Information outlet termination charges: including SMB/face plate fixing	Nos.	400		
3	Ferruling/ labelling for I/O at both ends	Nos.	400		
4	Site Certification Charges if any	Set	2		
5	patch panel installation	Nos.	16		
6	Wall Mount Rack Installation with Dressing	Nos.	2		
7	42U Floor Standing Rack installation with rack dressing	Nos.	1		

Note:-

Invoicing for accessories and installation items related to the cabling part should be invoiced at actual and NID will pay the bidder as per the actual supply and quantities installed. As mentioned in the terms and condition after the work-order is awarded to the bidder, bidder will do a joint survey with NID team, define the locations, and estimate the quantities of cable, accessories that will be required during the project. Based on the quantities agreed NID will release the purchase order with these quantities defined

SECTION – VIII - SECURITY DEPOSIT/ PERFORMANCE BANK GUARANTEE

(To be stamped in accordance with Stamp Act)

Ref: Bank Guarantee No.

Date:

To,
The Director
National Institute of
DesignOpp Musuem,
Paldi Ahmedabad 380007
Gujarat - India.

Dear Sir,

1. WHEREAS..... (Name of Bidder) hereinafter called "the Bidder" has undertaken, in pursuance of Agreement dated, (here in after referred to as "the Agreement SYSTEM INTEGRATION OF VARIOUS WORKS AT NID Ahmedabad. And WHEREAS it has been stipulated in the said Agreement that the Bidder shall furnish a Bank Guarantee ("the Guarantee") from a nationalised bank for the sum specified therein as security for implementing PROJECT.

WHEREAS we_____("the Bank", which expression shall be deemed to include its successors and permitted assigns) have agreed to give National Institute of Design (NID)the Guarantee:

THEREFORE, the Bank hereby agrees and affirms as follows:

The Bank hereby irrevocably and unconditionally guarantees the payment of all sums due and payable by the Bidder to NID under the terms of their Agreement dated

_____. Provided, however, that the maximum liability of the Bank towards NID under this Guarantee shall not, under any circumstances, exceed _____ in aggregate.

3. In pursuance of this Guarantee, the Bank shall, immediately upon the receipt of a written notice from NID in that behalf and without delay/demur or set off, pay to NID any and all sums demanded by NID under the said demand notice, subject to the maximum limits specified in Clause 1 above. A notice via Post/ Courier or any other means from NID to the Bank shall be sent by Registered Post (Acknowledgement Due) at the following address:

Attention Mr..

4. This Guarantee shall come into effect immediately upon execution and shall remain in force for a period of 60 days beyond the 3 year (Comprehensive warranty) period from the date of its execution. The Bank shall extend the Guarantee for a further period, which may mutually decide by the Bidder & NID. The liability of the Bank under the terms of this Guarantee shall not, in any manner whatsoever, be modified, discharged, or otherwise affected by:

(a) Any change or amendment to the terms and conditions of the work-order or the execution of any further Agreements.

(b) Any breach or non-compliance by the Bidder with any of the terms and conditions of any Agreements/credit arrangement, present or future, between Bidder and the Bank.

5. The BANK also agrees that NID 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 BIDDER and notwithstanding any security or other guarantee that NID may have in relation to the Bidder's liabilities.

6. The BANK shall not be released of its obligations under these presents by reason of any act of omission or commission on the part of NID or any other indulgence shown by NID or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the BANK.

7. This Guarantee shall be governed by the laws of India and the courts of Ahmedabad shall have jurisdiction in the adjudication of any dispute, which may arise hereunder.

Dated this the Day of

Witness

(Signature)

(Name)
Stamp

(Name)

(Official Address)
Designation with Bank
Stamp

In addition, Attorney as per Power of Attorney No.

(Signature)

Bank Rubber

Dated:

ANNEXURE I - TENDER LETTER FORM

From (Registered name and address of the bidder)

To,
The Director
National Institute of Design, Opp Museum
Paldi Ahmedabad 380007
Gujarat – India

Date:

Sir,

1. Having examined the tendering documents, we the undersigned, offer to supply, install, test, integrate and commission of Multiple Systems as detailed in the bidding document (as enclosed) in response to T/E numberdated

2. We undertake the following:-

(a) To maintain validity of the Tender for a period of 4 (120 days) months from the last date of Tender submission as specified in the bidding document or extended. The same shall remain binding upon us and may be accepted at any time before the expiration of that period.

(b) Supply, install, test, integrate, commission and maintain the "Systems" for a period of 36 months (warranty period) in conformity with the bidding documents (and as amended from time to time).

(c) Assistance in Operation and Comprehensive Maintenance of system for a period of 3 years (after commissioning of the system).Commission the "Systems" within the time frame as defined in the Tender documents (and as amended from time to time)

(d) Execute the work-order in totality and provide all securities & guarantees as required in the Tender document (and as amended from time to time). Also, until a formal work-order is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding work-order on us.

(e) Certify that products and Systems to be supplied shall be from eligible countries as specified by GoI time to time.

3. We hereby confirm full compliance with all of terms and conditions of this tender dated this _____ day of _____.

Signature
(in the capacity of)

Duly authorized to sign Tender for and on behalf of

Witness: (Signatures with name and designation), Address, etc:

ANNEXURE II : MANUFACTURER'S AUTHORIZATION FORM

Date:

To,
The Director
National Institute of
DesignOpp. Musuem,
Paldi Ahmedabad 380007
Gujarat – India

RFP Ref: **Tender Enquiry No. NID/Purc/Security/CCTV/2021 - 22** dated _____
and due on _____

Sub: Authorization Letter for Bidding for the above tender

Sir,

We _____ who are established and _____ reputable manufacturers
dealing with manufacture of
_____ hereby authorize _____ to submit a bid, and sign the work-
order with NID(If Chosen to be successful bidder) for the goods manufactured by us
against the above Invitation for Bid.

We hereby extend our full guarantee and warranty for the goods supplied by us,
Confirm that the products quoted are not end of life products, and we confirm that we
would provide post warranty support including spares, patches for the quoted
products available for next 3 years.

Yours faithfully,
Authorized Signatory

ANNEXURE III:

WORK EXPERIENCE IN EXECUTING WORKS PERTAINING TO CCTV SURVEILLANCE

Experience in supply, installation commissioning and maintenance for Surveillance Solutions							
Sr.	Name of the Orgn	Address of Installatio n	Start Date of the Project	Completion Date of the Project	Scope of Work Description in Brief of the Components used in the Solutions (CCTV Surveillance)	Value of The Project in Rs.	SupportingPO and Completion Certificate to be attached
1							
2							
3							
4							
5							
6							

ANNEXURE IV : FINANCIAL STRENGTH OF THE BIDDER

Financial Year	Turn Over (in Lakhs)	System Integration Turnover in LAKHS	Audited Accounts To be submitted. along with Supporting Auditor Certificate for SI Turnover submitted (Yes/ No)
2017-2018			
2018-2019			
2019-2020			

Note: Please fill this form and attach the audited Annual Accounts for the last three financial years along with the Auditor Certificate confirming the SystemIntegration Turnover

ANNEXURE – V

PROFORMA FOR BID SECURITY/ EARNEST MONEY DEPOSIT DECLARATION

<Letterhead of the bidder>

<Date>

To,
The Director
National Institute of Design
Opp Museum, Paldi
Ahmedabad - 380007
Gujarat

Dear Sir,

Name of Work: - Supply, Installation, Testing & Commissioning of, surveillance and networking components including cameras, VMS, switches, Display and passive cabling components at National Institute of Design Ahmedabad and Gandhinagar campuses

NIT No.: NID/Purc/Security/CCTV/2021 - 22

I/We understand that bids must be supported by a Bid Securing Declaration.

Whereas, I/We(Name of Bidder) hereinafter called "the Bidder" has submitted bid for subject work and whereas the Earnest Money Deposit is being exempted in the aforesaid tender to give relief to the bidders as per Govt. of India guidelines due to severe financial crunch on account of slowdown in economy due to the pandemic,

I/We hereby submit following declaration in lieu of submitting Earnest Money Deposit:-

1. If after the opening of tender, I/We withdraw or modify my/our bid during the period of validity of tender (including extended validity of tender) specified in the tender documents

OR

2. If, after the award of work, I/we fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents;

OR

3. If I/we furnish any incorrect or false statement / information / document;

I/we shall be suspended for and shall not be eligible to bid for NID tenders In future.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder or the receipt of your notification of the name of the successful Bidder or thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of(insert complete name of Bidder)

Dated on _____ day of _____(insert date of signing)

Corporate Seal (where appropriate)

ANNEXURE – VI - FORMAT OF INDEMNITY BOND

To be furnished in Stamp paper as per Stamp Act)
(Stamp Paper should be purchased in the name of the SELLER)
(At present not less than Rs.80/- stamp paper)

This deed of Indemnity executed by hereinafter referred to as 'Indemnifier' which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, representative and assignees in favour of National Institute of Design, Ahmedabad, hereinafter referred to as the 'Indemnified' which expression shall unless repugnant to the context or meaning thereof, include its successors and assignees witnesses as to.

Whereas the indemnified herein has awarded to the Indemnifier herein a purchase order for the supply/ service of on terms and conditions set out interalia in the Purchaser's order No..... valued at Rs.....(Rupees only)

And Whereas, clause of the above mentioned purchase order provides for guarantee (ie) to be free from defect due to faulty material or workmanship for a period of 36 calendar months from the date of receipt of stores or actual working hours from the date of commissioning whichever is earlier of the stores supplied by the Indemnifier to the indemnified.

The indemnifier hereby irrevocably agrees to indemnify the indemnified that in the event of the stores not achieving the life guarantee, the indemnifier shall as may be deemed necessary repair the defective stores at site, free of cost, within a reasonable time specified by the indemnified or reimburse the pro-rata cost of the stores to the extent a life not achieved as per the guarantee, or supply a spare stores for the defective portion only free of cost at site in respect of his purchase order obligations emanated from the purchase order already referred to the extent of Rs.....(Rupees..... only)

for.....
Station : (Signature with Name and Designation)

Date :

Company Seal

Witness:

1.....
Signature with Name, Designation & Address.

2.....
Signature with Name, Designation & Address

ANNEXURE VII - CHECKLIST FOR CCTV INSTALLATION

1. NID, Ahmedabad needs & requests

- System design addresses risks and meets customer's overall needs.
- Products used meet the system features that customer requested.

COMMENTS:

2. Detectors

- Installed to manufacturer's installation instructions.
- Cover only within site boundaries (i.e. does not cover public areas).
- Each detector uniquely identifiable to the system.
- All cabling and detection devices incorporate tamper protection.
- PIRs are not easily subject to false triggering (where installed).

COMMENTS:

3. Positioning and Configuration of Cameras

- Camera's field of view covers areas of associated detectors.
- Cameras do not face directly into sun or light.
- Cameras do not overlook public places.
- Camera type (e.g. PTZ, fixed, etc) is appropriate for the position and use.

COMMENTS:

4. System Performance, Management and Integrity

<ul style="list-style-type: none"><input type="checkbox"/> Appropriate level of training and/or demonstration given to customer.<input type="checkbox"/> Appropriate signage in place.<input type="checkbox"/> System management procedures documentation given to customer.<input type="checkbox"/> Probable application of Data Protection Act communicated to customer.<input type="checkbox"/> Back-up UPS installed where requested or appropriate.<input type="checkbox"/> Event log-system history is held and retained in secure method.<input type="checkbox"/> Recording settings and duration of retention of recorded images documented.<input type="checkbox"/> Indication of video loss, tampering and failure can be properly conveyed to remote centre, where it exists.
COMMENTS _____

5. Testing and Commissioning

<ul style="list-style-type: none"><input type="checkbox"/> Tests carried out on:<ul style="list-style-type: none"><input type="checkbox"/> Detectors<input type="checkbox"/> Cameras<input type="checkbox"/> Accuracy of recorded data<input type="checkbox"/> Comparison of reference images against live operations<input type="checkbox"/> Walk Test (for each camera)<input type="checkbox"/> Results of testing documented and given to customer.<input type="checkbox"/> Client/Owner/User provided with system spec including equipment inventory.<input type="checkbox"/> Setting/Unsetting device installed and tested.<input type="checkbox"/> Client/User informed of any inspection and servicing routines.
COMMENTS: _____

Installers Signature: _____

Company/Trading Name: _____

Date Installation Completed: _____

Client/Owner/User Signature: _____

ANNEXURE – VIII - RECORD OF MAINTENANCE

Item Name: _____

Maintenance Due On: _____

Date Maintenance Carried Out: _____

Maintenance Carried Out By: _____

I CERTIFY THAT I HAVE CARRIED OUT THE FOLLOWING MAINTENACE ON THE CCTV SYSTEM LOCATED AT _____ ON THE DATE ABOVE:

- System History since last maintenance visit checked
- Signs of deterioration or damage checked for, through visual inspection.
- Cameras, lenses and housing checked and cleaned.
- Remote signalling equipment (where fitted) checked and tested.
- Recording and playback quality checked
- Lenses and pictures checked for correct field of view and adjusted (if necessary)
- All CCTV control equipment (e.g. monitors, multiplexers, DVR, etc) checked.
- Transmission of images to remote centre checked (where applicable)
- All test results logged and available for inspection
- CCTV system returned to operational status (date and time conveyed to client)

Additional Comments (if required)

Signature of Maintenance Operative: _____

Date: _____

Signature of Client: _____