

भारतीय प्रौद्योगिकी संस्थान पटना

INDIAN INSTITUTE OF TECHNOLOGY PATNA

बिहटा, पटना-801106, बिहार, भारत
Bihta, Patna – 801 106, Bihar, INDIA

E-PROCUREMENT MODE

Tender Reference No.: IITP/S&P/EPR/1/SS-1/2019-20
E-tender for **Supply, Installation, Commissioning & Maintenance of CCTV Surveillance System as turnkey project in the IIT Patna Campus**

Documents to be submitted online only

Last Date of Bid Submission: 28.01.2020

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भारतीय प्रौद्योगिकी संस्थान पटना INDIAN INSTITUTE OF TECHNOLOGY PATNA

बिहटा, पटना-801106, बिहार, भारत
Bihta, Patna – 801 106, Bihar, INDIA

Tender Reference No.: IITP/S&P/EPR/1/SS-1/2019-20

Date: 16.12.2019

Indian Institute of Technology Patna is in the process of procurement of CCTV surveillance system:

Name of the work	Supply, Installation, Commissioning & Maintenance of CCTV Surveillance System as turnkey project in the IIT Patna Campus
Earnest Money Deposit	Rs.5,00,000.00 (Rupees Five Lakhs Only)
Warranty	5 Years
Delivery Schedule	14 (Fourteen) Weeks
Online EMD Submission: Bidder can submit their EMD online by visiting below link: https://www.onlinesbi.com/sbicollect/icollecthome.htm Note:- Tender Reference Number should be mentioned for the purpose of EMD submission. Following webpage may be referred for the instructions related to fee submission; https://www.iitp.ac.in/images/pdf/snp/SBI%20I-Collect.pdf Alternatively, a bank guarantee may be issued from a nationalized bank, in favour of Registrar, IIT Patna, valid till 9 months from the last date of submission of bids.	
Submission of Bids Online: Interested parties may view and download the tender document containing the detailed terms & conditions from the website; https://eprocure.gov.in/eprocure/app	

- Detailed Tender Documents may be downloaded from Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) and from our website (<https://www.iitp.ac.in/>).
- All details /document pertaining to the tender such as tender document, pre-bid report, corrigendum and any further updates will be available only on our website & also at CPP Portal.
- No manual bid will be accepted. All quotations (both technical & financial) should be submitted in the e-procurement portal only.**
- IIT Patna shall not be responsible for non-receipt of bid due to internet issues or any other reasons. The bidders are advised to submit their bids at the earliest in their own interest.

CRITICAL DATES

Publishing Date	18.12.2019 (06:30 pm)
Document Download / Sale Start Date	18.12.2019 (06:30 pm)
Seek Clarification Start Date	18.12.2019 (06:30 pm)
Seek Clarification End Date	01.01.2020 (03:00 pm)
Pre-Bid Meeting Date	03.01.2020 (11:00 am)
Bid Submission Start Date	08.01.2020 (09:00 am)
Last Date & Time of Submission of Bids (Technical & Financial Bid)	28.01.2020 (03:00 pm)
Opening Date & Time of Technical Bids Online	29.01.2020 (03:30 pm)
Address of Communication	The Registrar (for Stores & Purchase), Indian Institute of Technology Patna Kampa Road, Bihta, Patna, Bihar-801106 Phone: 0612-302-8683
For taking technical assistance regarding bid submission, if any	CPP Portal Website: https://eprocure.gov.in Help Desk Numbers: 0120-4200462, 4001002/5.

REGISTRAR, IIT PATNA

INTRODUCTION

1. Disclaimer

The information contained in this tender document or information provided subsequently to Bidder or bidders whether verbally or in documentary form by or on behalf of IIT Patna, is provided to the Bidder on the terms and conditions set out in this tender document and all other terms and conditions subject to which such information is provided. This tender document is not an agreement and is not an offer or invitation by IIT Patna to any parties other than the bidders who are qualified to submit the Bids (“Bidders”). The purpose of this tender document is to provide bidder with information to assist the formulation of their proposals. This tender document does not claim to contain all the information each Bidder may require. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this TENDER document and where necessary obtain independent advice. IIT Patna makes no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this TENDER document. IIT Patna may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this TENDER document.

2. Background

Indian Institute of Technology Patna (IITP) is a premier technological institute that has been conceived to bolster high-quality technical education and research and to cater the nation's need for well groomed technocrats and scientists. IITP's academic program had commenced in August 2008. Currently, the Institute operates from its permanent campus at Bihta, Patna spread across over 500 acres.

IIT Patna plans to install CCTV Surveillance system as turnkey project which has following salient features:

- High performance, feature rich, highly available and resilient CCTV Surveillance equipment and its accessories, capable to withstand link and equipment failures without suffering major downtime.
- Scalable to support future expansion.
- Scalable and flexible to integrate newer technologies as they emerge without requiring major overhaul to the infrastructure.
- Highly Secured – both for threats from the outside (Internet) as well as locally originating threats.
- Accessible from wide range of platforms and user friendly.
- Training and handholding – End users and technical team of IIT Patna. The selected vendor must provide handholding and support for operations support so that IIT Patna technical team becomes capable of handling the operations part of the.
- Warranty, maintenance of the CCTV Surveillance for 5 years with prescribed SLA.

3. Schedule of Selection Process

The Authority would endeavour to adhere to the following schedule:

Event Description	Reference Time	Actual Date & time
Date of publishing of tender	18.12.2019	18.12.2019
Last date for receiving queries/clarifications	15 th working day from day 0	01.01.2020
Pre-bid Meeting (Venue: Registrar Office Meeting Room, IIT Patna) at 1100 hrs	17 th working day from day 0	03.01.2020
Publication of corrigendum (if required)	21 st working day from day 0	07.01.2020

Event Description	Reference Time	Actual Date & time
Final submission of tender document	43 rd working day from day 0	28.01.2020 (03:00 pm)
Opening of technical bid	44 th working day from day 0	29.01.2020 (03:30 pm)
On-site Presentations (Bidders who qualify the preliminary scrutiny of the submitted bids will be called for the On-site presentations)	Within Two weeks of Opening of technical bid	To be announced later
Proof of Concept	To be announced later	To be announced later
Opening of Price bid	To be announced later	To be announced later
Award of contract	To be announced later	To be announced later
Submission of Performance Bank Guarantee	To be announced later	To be announced later
Signing of SLA	To be announced later	To be announced later

4. Communication

All communications including the submission of Proposal should be addressed to the Registrar, IIT Patna, (For CCTV Tender) with a CC to the Security Officer, IIT Patna

Email: registrar@iitp.ac.in / security_officer@iitp.ac.in

The copies of the original documents as mentioned in Annexure-XX must be either dropped in the tender box kept in S&P section, 1st floor, Admin. Building IIT Patna or sent by speed post so as to reach IIT Patna at least one day before the last date of online bid submission, in sealed envelope duly subscribed with the Reference number and Tender Notice details, as appended hereunder:-

<p align="center">E-TENDER FOR SUPPLY OF Supply, Installation, Commissioning & Maintenance of CCTV Surveillance System as Turnkey project in the IIT Patna Campus</p> <p align="center">TENDER REF NO: - IITP/S&P/EPR/1/SS-1/2019-20, DATED 16.12.2019, LAST DATE FOR SUBMISSION. 28.01.2020 UPTO 03.00 PM</p>	
<p>To, The Registrar (For Store & Purchase Section) Indian Institute of Technology Patna Amhara Road, Bihta, Patna - 801106, Bihar, INDIA</p>	<p>From: M/s _____ Address: _____ Contact No.: _____ Email ID: _____</p>

5. Cost of Proposal

The Bidders shall be responsible for all of the costs associated with the preparation of their Proposals and their participation in the Selection Process including subsequent negotiation, visit the Project site etc. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Selection Process.

ESSENTIAL ELIGIBILITY CRITERIA

- 1. The bidder should have at least five years of experience in Installation & Commissioning of CCTV Surveillance System as turnkey project.** The bidder must provide self-attested year wise experience details as per **Annexure-V & VI**.
- 2. The bidder should have at least five years of experience in Installation & Commissioning of CCTV Surveillance System as turnkey project .**The bidder must provide self-attested year wise experience details as per **Annexure-V & VI**.
- 3.** For the financial and operational stability, the bidder should have a yearly turnover of at least Rupees one and half crores (Rs. 1.5 crores) over the last three years. The CA certified financial statements of last three years must be provided along with **Annexure-IV**.
- 4.** The bidder should have a successful track record, and should have **at least one implementation of similar work (Installation & Commissioning of CCTV Surveillance System) of minimum Rupees one crore (Rs. 1 crore)** in any IIT, NIT, IISER, institute of national importance, PSU or corporate. The bidder must provide the relevant PO's/Letter of award of work and completion certificate for the same.

The bidders must satisfy all the above criteria.

INSTRUCTIONS TO THE BIDDERS

The tender shall be submitted in accordance with these instructions and any tender not conforming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

1. For Online Bid Submission as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.
2. More information useful for submitting the online bids on the CPP Portal is available/ obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)
3. For Registration, Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link *”Click here to Enroll”. Enrollment on the CPP Portal is free of charge.
4. Foreign Bidders have to refer “DSC details for foreign Bidders” for Digital Signature Certificate requirements which comes under Download Tab at <http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page> and the remaining part is same as above and below.
5. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulate any condition of his own, such conditional tender is liable to be rejected.
6. IIT Patna reserves the right to reject any tender/bid wholly or partly without assigning any reason.
7. The technical committee constituted by the IIT Patna shall have the right to verify the particulars furnished by the bidder independently.
8. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. IIT Patna before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
9. The item should be delivered at IIT Patna, Kanpa Road, Bihta, Patna-801106, Bihar, INDIA and the supplier shall be responsible for any damage during the transit of goods.
10. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
11. Interested bonafide and reputed manufacturers/India agents (on behalf of their foreign principals) may submit Online bids for each of the above equipment along with all requisite documents and scanned copy of EMD submission reference.
12. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app>. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.
13. The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.
14. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. IIT Patna reserves the right to accept or reject any or all the tenders.
15. The detailed instruction for Online submissions of bid(s) through e-Procurement module of Central Public Procurement of NIC, the bidder(s) may visit the following link:-
<http://eprocure.gov.in/eprocure/app?&service=page>

INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.

2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.

5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.

6) Bidder then logs in to the site through the secured log-in by entering their user ID/ password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

3) Bidder has to select the payment option as “offline” to pay the tender fee/ EMD as applicable and enter details of the instrument.

4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener’s public keys.

8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

9) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

GENERAL TERMS AND CONDITIONS

01. **Rates:** Rates quoted for indigenous items must be on F.O.R basis for IIT Patna, on DOOR DELIVERY Basis, with break up as per details given in BoQ.
02. **Validity** (Both Foreign & Indigenous): The validity period of the offer should be clearly specified. It should be at least for 180 days from the last date of submission of quotations.
03. **Warranty/Guarantee:** The material is quoted with a minimum onsite Warranty/Guarantee period of 05 years after the date of delivery, installation and acceptance at final destination.
04. **EMD:** EMD should be submitted in the Institute's Account using i-Collect of SBI. The details may be seen on following webpage
(<https://www.iitp.ac.in/images/pdf/snp/SBI%20I-Collect.pdf>)
05. **Delivery:** Unless otherwise stated delivery of goods shall be at IIT Patna and will have to be effected maximally within **14 (fourteen) weeks** from the date of issue of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the vendor.
06. **GST Certificates & TDS:** Scanned Copy of GST Certificate must be uploaded with technical bid. Appropriate GST deduction at source will be applicable.
07. **Dealership Certificate:** Dealership certificate (in case of authorised dealers) and standard Technical literature on the offered products must be uploaded with technical bid.
08. **Performance Guarantee:** 10% in the form of Bank Guarantee/ Fixed Deposit of the total order value needs to be submitted for such period as to cover two months beyond the warranty period for any order for equipments of more than Rs.1 Lakh. In case of non-submission of BG/FD, an equivalent amount will be retained while payment till the above mentioned duration.
09. **Late and delayed quotation:** Late and delayed quotations will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date, the next working day shall then automatically be the prescribed date of closing/opening of the quotation with no change in timing.
10. **Ground for Rejection of Quotation:** The quotations are liable to be rejected if the foregoing conditions are not complied with. The quotation should be complete in all respects if a firm quotes NIL charges / consideration, the bid shall be treated as unresponsive and will not be considered.
11. **Payment:** Payment will be made within 30 days from the date of successful delivery and acceptance of goods at IIT Patna/ successful installation in case of machinery, equipments or the likes, generally through RTGS / FUND TRANSFER. Following information must be clearly written in the uploaded bank details for RTGS / FUND TRANSFER: -
 - (a) Name of the Firm with complete postal address
 - (b) Name of the Bank with Branch where the Account exist
 - (c) IFSC CODE
 - (d) ACCOUNT No
 - (e) PAN No
 - (f) GST/TIN No
12. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in part or in full, as per the terms and conditions stipulated in the Purchase Order, it will be open to the institute to recover the liquidated damages from the firm at the rate of 0.5% per week of the order value subject to a maximum of 10% of the order value. It will also be open to the institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the defaulter firm/vendor, which accepted the order but failed to execute the order according to the stipulated agreed upon. Defaulter vendor(s)/ firm(s) are also liable for blacklisting.

13. **Termination for default:** Default is said to have occurred
- (a) If the supplier fails to deliver any or all of the goods/ items/ services within the time period(s) specified in the purchase order or any extension thereof granted by IIT Patna.
 - (b) If the supplier fails to perform any other obligation(s) under the contract
 - (c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from IIT (or takes longer period in spite of what IIT may authorize in writing), IIT may terminate the contract / purchase order in whole or in part. In addition to above, IIT may at its discretion also take the following actions: IIT may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate IIT for any extra expenditure involved towards goods and services to complete the scope of.
14. **Applicable Law:**
- (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing, as may be applicable upon IIT Patna.
 - (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
 - (c) Any dispute arising out of this purchase shall be referred to the Registrar IIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, (to be appointed by the Director of the Institute). The decision of such Arbitrator shall be final and binding on both the parties.
15. The acceptance of the quotation will rest solely with the Director, IITP, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all of the quotations received without assigning any reason(s).
16. **Important:** The Director may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lowest bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item, at any time before placing the Purchase Order.
17. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- (i) For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
 - (ii) If a Force Majeure situation arises, the Supplier shall promptly notify IIT Patna in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
18. The in general Printed conditions of supply of the firm, if any, will not be binding on the Institute.
19. In case of conflict between any of the clauses of General terms and conditions and special terms of conditions, the clause of special terms and conditions will prevail.

SPECIAL TERMS AND CONDITIONS

1. Deliverables & Milestones

(i) The deliverables shall include the following:

- a. CCTV Surveillance System and related accessories like licenses etc
- b. Interconnectivity between various components of the CCTV Surveillance System and IIT Patna interfacing hardware and software.
- c. End-user and Technical Training and project documentation. The selected vendor must provide handholding for operations support so that IIT Patna technical team becomes capable of handling the operations part of the system.
- d. Warranty & support for 5 years.

(ii) The milestones shall include following:

SI No	Milestone Description	Time schedule
1	Letter of award (LOA)	Project starts on this day, Day 0.
2	Acceptance of LOA by selected bidder	Within 1 (one) week from LOA date.
3	Submission of PBG	Within 2 (Two) weeks from LOA date.
4	Project Kick Off	Within 2 (Two) weeks from LOA date.
5	Delivery of Hardware	Within 8 (eight) weeks from LOA.
6	Go-Live (The day on which the entire CCTV Surveillance System becomes fully operational)	Within 12 (Twelve) weeks from LOA date.
7	Submission of acceptance testing schedule, all project documentation & installation reports	Within 14 (Fourteen) Weeks from LOA.
8	CCTV Surveillance System commissioning day (The day on which the entire system acceptance testing has been completed and system is accepted by IIT Patna. By this time all activities related to the CCTV Surveillance System like recording, monitoring at End-user and technical Training and documentation must have been Completed)	This day will mark the start of warranty and maintenance for five years.
9	Warranty, support and maintenance	For the period of five Years.

2. Scope of the Work

The scope of this contract covers “Supply, Installation, Testing and Commissioning of CCTV Surveillance System at IIT Patna”. The agency shall have to Supply, Install, and Commission and maintain the CCTV Surveillance System/Equipment in the Institute premises.

Area includes:

- a. Academic Complexes (Block-III, IV, VI & IX)
- b. Administrative Building
- c. Director’s Bungalow
- d. Old & New Boys’ Hostel
- e. Girls’ Hostel
- f. Food Court
- g. Workshops (Old & New)
- h. Sub-Stations
- i. Type B Quarters
- j. Type C Quarters
- k. Type D Quarters
- l. Hospital
- m. Water Treatment Plants (WTP)
- n. Internal Roads
- o. All Entry Gates
- p. Residential Gate
- q. Shopping Centre
- r. Road Roundels
- s. MRSS
- t. Parking area
- u. Sports Complex
- v. Gymkhana Building

3. Model of engagement

IIT Patna would need the selected bidder to use a managed services model for the above systems for a period of five years from CCTV Surveillance System commissioning day (see clause 1 of this chapter for Milestones). In particular, the selected bidder must provide CCTV Surveillance System installation, commissioning, hardware and software maintenance, regular backup and restore, and complete support for five years after CCTV Surveillance System commissioning day by a dedicated onsite team. Bug fixing, feature enhancement and higher-level support may be provided through offsite backend. Managed services will also include providing software licenses, hardware, bug fixing, enhancements, upgrades, functional, operational and technical training of IIT Patna personnel, and other related activities. The selected bidder will take the end-to-end responsibility as a single point contact to ensure smooth functioning of the CCTV Surveillance System by providing requisite resources.

The selected vendor must provide handholding for operations support so that IIT Patna technical team becomes capable of handling the operations part of the system.

4. Technical & Financial bid

Bidders are required to submit the bid online through e-tendering mode only. **The necessary documents can be seen and downloaded from website eprocure.gov.in**

Furthermore, the bidders are also required to send the physical copy of only those documents mentioned in Annexure-XX as per instructions given in clause 4 of Introduction.

The technical bid must focus on the **CCTV Surveillance System**. In particular, they must provide the following information:

- 1) Architectural Overview
- 2) Risk assessment (During & post implementation)
- 3) Detailed Un-priced BOQ corresponding to high level architecture given in section 25.
- 4) Product literature and datasheets.
- 5) Solution to scope of work mentioned in clause 2
- 6) User friendly and innovative features
- 7) Compliance to Indicative list of technical specifications mentioned in Annexure-I
- 8) Comprehensive licensing information of all the components
- 9) Scalability w.r.t. future expansion and integration of new technologies
- 10) Performance of the proposed system with well defined parameters
- 11) Security (both from outside and inside threats)
- 12) System Management and monitoring
- 13) Back up, restore, archival etc. system level tasks
- 14) Handling crash, failures, disasters etc. for high availability
- 15) Man power deployment with qualification and experience at various stages during and post implementation
- 16) Project Implementation methodology, plan and schedules and coordination with IIT Patna team
- 17) Duly attested Quality and benchmarking standards documents for safety, green technologies etc.
- 18) Accessibility from wide range of platforms like web, desktop, mobile devices etc.
- 19) Warranty and support details, methodology, and plan with well defined SLAs and escalation matrix.
- 20) Training, documentation and handholding.
- 21) All the relevant forms in annexure

The bidders that are selected for the on-site presentations should present their previous experiences, proposed architecture as per our requirements, implementation and integration approach. The schedule of such presentations will be communicated to the participating bidders through mail. Presentation will be an integral part of the evaluation as per criteria mentioned in clause 4 of this chapter.

The financial bid must contain the itemized list of the following:

- Camera & other end user devices
- Application & Analytics
- Storage
- Computing Resources (like server, workstation etc.)
- Connectivity, cabling & other accessories (passive, active, rack etc.)
- Display & video operations
- UPS & electrical requirement
- Implementation, Installation & project management
- Year wise warranty, maintenance and support offered (for 5years)

All the requisite Hardware and software Licenses must be clearly indicated, properly described (with type, validity, quantity, renewal requirements etc.).

The price quoted in the financial bid must be F.O.R IIT Patna, Bihta Campus, Patna, Bihar-801106. The detailed break up for taxes, discounts etc. must be provided. The total cost of project including and excluding the applicable taxes under each category must be clearly indicated as in format provided in Annexure-XVII and XVIII

5. Technical Evaluation& Presentation

Evaluation of Technical Proposal and Technical Presentation

Bidders qualifying in the Pre-Qualification round will be invited to do a technical presentation before the Technical Monitoring Committee of IIT Patna. The date, time and place for the same will be communicated to the bidders in advance. Bidders have to submit hard copy of relevant documents before the committee, pertaining to their technical parameters during technical presentation.

The scoring criteria for technical evaluation shall be as follows:

Item code	Parameter	Maximum marks	Criteria
01	Technical evaluation of the system architecture , Innovative ideas, user friendly Surveillance system proposed by the bidder for section 2 and ability to showcase existing or potential capabilities during the on-site presentation	05	User friendly- Innovative & featured rich
		05	scalable w.r.t. future expansion and integration of new technologies
		05	Security w.r.t outside and inside threats and attacks
		05	Highly available, resilient, capable to withstand link and equipment failures
		05	Accessible from wide range of platforms
		05	Training and handholding – End users and technical team of IIT Patna
		05	Execution plan during warranty and maintenance of the CCTV Surveillance System for 5 years with prescribed SLA.
02	Compliance to technical requirements	15	The compliance to the end-user features and other technical requirements outlined
03	Financial and operational stability of the bidder	05	Financial stature of bidder w.r.t financial revenues, profit and operational stability. Up to 2 Crores P.A- 03 Marks Above 2 Crores P.A- 05 Marks (Maximum)
		05	Revenue of bidder from CCTV Surveillance System service & its accessories items Up to 2 Crores P.A- 03 Marks Above 2 Crores P.A- 05 Marks (Maximum)
		05	Purchase order values for implementation of CCTV Surveillance System Up to 70 Lakhs - 03 Marks Above 70 Lakhs, - 05 Marks (Maximum)
04	Experience in providing CCTV Surveillance System IIT, NIT, IISER, institute of national importance, PSU or corporate.	20	Experience in implementing CCTV Surveillance System in IIT, NIT, IISER, institute of national importance, PSU or corporate. (For 01 project of more than 100 Cameras installation will be awarded 10 marks and their after 05 marks for each such project. Maximum total marks 20.
	Project Plan and	03	Project plan

Item code	Parameter	Maximum marks	Criteria
05	implementation methodology during implementation and warranty, operations, Support & maintenance.	03	Material delivery plan
		03	Quality control and benchmarking Key
		06	Personals involved- Qualification, experience and domain knowledge

Note:- Only those Bidders whose Technical Proposals & presentation gets a score of [80] (Eighty) marks or more out of 100 (one hundred) and 70 % (Seventy percent) under each section/item shall qualify for further consideration, and shall be ranked from highest to the lowest on the basis of their score.

6. Demonstration of Proof of Concept (POC)

Evaluation of PoC

Only those Bidders who qualify in technical Proposals & presentation will be called for PoC.

Those Bidders going to demonstrate the PoC has to get a score of [70] (Seventy) marks or more out of 100 (one hundred) and [50] % (fifty percent) under each section to qualify for further consideration of opening their price bid.

The scoring criteria for PoC shall be as follows:

Sl. No.	Criteria	Max Marks
1	Project plan	10
2	Innovative & feature rich solution	10
3	Scalable w.r.t. future expansion and integration of new technologies	10
	<i>Scalable above 1000 Cameras :- 10 Marks</i>	
	<i>Between 700 to 999 Cameras :- 07 Marks</i>	
	<i>Between 400 to 699 Cameras :- 05 Marks</i>	
4	Secure w.r.t outside and inside threats and attacks	10
5	Highly available, flexible, capable to withstand link and equipment failures	10
	<i>Fail over time Below 60 Second :- 10 Marks</i>	
	<i>Fail over time 60 Second to 120 Second :- 07 Marks</i>	
	<i>Fail over time 121 Second to 180 Second :- 05 Marks</i>	
6	User friendly architecture & Maintenance	10
7	Accessible from wide range of platforms	10
8	Integration with existing system	10
9	Quality control and benchmarking	10
10	The compliance to the end-user features and other technical requirements	10
	<i>100 % compliance of technical specification:- 10 Marks</i>	
	<i>95 to 99 % compliance of technical specification:- 07 Marks</i>	
	<i>90 to 94 % compliance of technical specification:- 05 Marks</i>	
	Total Marks	100

7. Financial and Final Evaluation

In the second stage the financial evaluation will be carried out for the technically qualified bidders as per clause 4 of this chapter. For financial evaluation, the total cost indicated in the Financial Proposal, will be considered. The Authority will determine whether the Financial Proposals are complete, unqualified and unconditional. The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of services. Omissions, if any, in costing any item shall not entitle the firm to be compensated and the liability to fulfill its obligations within the total quoted price shall be that of the Bidder. The bidders will be ranked based on total cost of the solution quoted in the financial bid from lowest to highest.

8. Award of work

After selection, a Letter of Award (the “LOA”) shall be issued, by the Authority to the Selected Bidder and the Selected Bidder shall, within 7 (seven) days of the receipt of the LOA, sign and return a copy of the LOA in acknowledgement thereof. In the event the copy of the LOA duly signed by the

Selected Bidder is not received by the stipulated date, the Authority may, unless it consents to extension of time for submission thereof, appropriate the Bid Security of such Bidder as mutually agreed genuine pre-estimated loss and damage suffered by the Authority on account of failure of the Selected Bidder to acknowledge the LOA.

9. PBG (Performance Bank Guarantee)

The selected bidder must produce an unconditional Performance Bank Guarantee (the “PBG”) for 10% of project value mentioned in LOA from Indian Nationalized Bank denominated in Indian Rupees (INR) within 15 days of the date of “LOA”. The validity of the PBG must be Six years from the date of LOA.

10. Service Level Agreement:

After issue of the Letter of Intent/Award, the purchaser shall prepare the Agreement on the stamp paper as per Annexure XIX for Supply, Erection and Commissioning CCTV Surveillance system of the contract and the bidder shall sign the said Agreement within 30 Days from the date of issue of Letter of Intent/Award. The expenses of completing and stamping the agreement shall be borne by the Contractor. The Contractor shall furnish two (2) sets of such Contract Agreements to the Purchaser. After the Agreement, one original set shall be handed over to the Contractor and the remaining one set shall be retained by the Purchaser.

11. Subletting the Contract

The Contractor shall not, assign or sublet or transfer his Contract or substantial part thereof other than for raw materials, for minor details, or for any part of the work, of which the suppliers and or erectors are named in the Contract, provided that any such consent shall not relieve the Contractor from any obligation, duty or responsibility under the Contract.

12. Payment Terms and Conditions

A. Hardware

- 30% of the cost shall be paid after delivery of Goods at the specified location.
- 30% of the cost shall be paid after successful Go-Live of the system.
- 30% of the cost shall be paid on CCTV Surveillance System commissioning.
- Final 10% of the cost shall be paid after 3 months of successful functioning of all installation.

B. Software

- 60% payment shall be paid after successful Go-Live of the system.
- Final 40% of the cost shall be paid after CCTV Surveillance System commissioning.

C. Project Management and implementation services

- 50 % payment shall be paid after CCTV Surveillance System commissioning.
- 50 % payment shall be paid one month after CCTV Surveillance System commissioning or after successful acceptance of overall solution whichever is later.

D. Warranty, support and maintenance of the system

Payment shall be made half yearly in arrears during the Warranty, support and maintenance period of five years starting from the day warranty and support services for 5 years starts, on the basis of satisfactory performance report.

E. All payments will be subject to deduction of all applicable taxes.

13. Project Time Schedule and penalty due to delay in implementation

The selected bidder will have to complete the work as per the scope outlined in the clause 2 adhering to the milestones outlined in clause 1 of this chapter.

In case, the extension of the time schedule is inevitable, the selected bidder will have to inform in advance giving justification for extension through a duly attested letter. The request of such extensions will then be placed before an empowered committee of IIT Patna for approval. Only upon approval by the competent authority, such extensions will be considered. In case of rejection of such request, penalty will be applicable as described below.

The selected bidder has to provide the detailed project plan with time schedule. Following penalty will be applicable in case of late delivery:

Sl. No.	Delay in milestone	Penalty
1	Submission of PBG	0.1% of the total project cost as per LOA for every week of delay.
2	Project Kick-Off	0.1% of the total project cost as per LOA for every week of delay.
3	Delivery of Hardware	0.1% of the total project cost as per LOA for every week of delay.
4	Go-Live	0.1% of the total project cost as per LOA for every week of delay.
5	Submission of acceptance testing schedule, all project documentation & installation reports	0.1% of the total project cost as per LOA for every week of delay.
6	CCTV Surveillance System commissioning date	0.1% of the total project cost as per LOA for every week of delay.

Maximum value of penalty to be imposed due to delay will be 10% of total project cost as per LOA.

Any increase in price due to statutory increase in or fresh imposition of any tax which is enforced after the original delivery period shall be admissible on the items which are delivered after this date. But nevertheless, the buyer is entitled to the benefit of any decrease in price on account of reduction in or remission of GST or on account of any other tax or duty or on any other ground.

14. Review meeting

Weekly review meeting shall be conducted to monitor and assess the progress of the work. The schedule, agenda and participation etc. of such meetings must be planned by the selected bidder.

15. Right to reject any or all Proposals

Notwithstanding anything contained in this TENDER, the Authority reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

The Authority reserves the right to reject any Proposal if; at any time, a material misrepresentation is made or discovered, or

The Bidder does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Proposal.

Misrepresentation/ improper response by the Bidder may lead to the disqualification of the Bidder. If the Bidder is the Lead Member of a consortium, then the entire consortium may be disqualified / rejected. If such disqualification / rejection occurs after the Proposals have been opened and the highest ranking Bidder gets disqualified / rejected, then the Authority reserves the right to consider the next best Bidder,

or take any other measure as may be deemed fit in the sole discretion of the Authority, including annulment of the Selection Process.

16. On-site survey, Detailed BOQ, and local conditions

On-Site Survey

The bidders should conduct a detailed site survey and gather required comprehensive information regarding the requirement of CCTV Surveillance system before preparing the bid documents and collect a site visit certificate, which must be attached with technical bid. All information required for implementing the CCTV Surveillance system and to ensure its smooth functioning and operation must be clarified before the submission of the bid.

- Cameras and other end user devices
- Application and Analytics
- Solution sizing with respect to storage, hardware, software etc.
- Computing Requirements
- Connectivity, cabling and other accessories (Passive and Active components)
- Display and video output
- System Management and monitoring
- UPS and Electrical requirements
- Implementation and Installation services
- Maintenance and warranty etc.

The above methodology and list is a generic outline and the bidder is free to adopt/suggest approaches and parameters based on their own experience and expertise.

Detailed BOQ

The bidders must provide the detailed un-priced BOQ as part of the technical bid and priced BOQ as part of financial bid as per the terms and conditions of the tender.

- The BOQ should be complete in all respects.
 - The bidders should ensure that all components are accounted for in both the “un-priced” and “priced” BOQs. The bidder, if selected, will have to provide any missing component at own cost.
 - All line items in the “priced” BOQ must also appear in the “un-priced” BOQ.
 - The Technical bid should include an un-priced BOQ (in tabular form) in a section clearly marked as Un-priced BOQ along with supporting documents to substantiate the evaluation of questions indicated in clause 5. The un-priced BOQ table along with supporting documents should be divided into following sections, separately.
- A. CCTV Surveillance System and related accessories like licenses etc.
 - B. CCTV Surveillance System Hardware and related accessories.
 - C. Project management,
 - D. Implementation service sand
 - E. Year wise warranty, maintenance and support offered (for 5years)

For section A to D the Format as given in Annexure-XVIII should be used.

The column component description may have following values:

- Type of CCTV Camera
- Hardware or software item
- License type like perpetual, one time etc

- Virtualization component
- Video Wall / Central Monitoring
- Storage
- Connectivity like cable, rack, switches, etc
- UPS, battery etc
- Any other self explanatory term describing the component as per high level diagram

The last two columns should be left empty in the un-priced bid and should be filled only in the commercial bid. There should be no line item in the commercial bid which is not mentioned in un-priced BOQ.

The terms “installation”, “tools and testers” may be used as line items in the BOQ wherever necessary. In case the line item is a “license”, then it must be clearly indicated, properly described with type, validity, quantity, renewal requirements etc).

All the licenses must be valid at least for the period starting from the day it is deployed during project execution till the warranty, support and maintenance of 5 years expires. The perpetual & open source licenses must be clearly marked.

(Project execution period means period between Project Kick-Off and CCTV Surveillance system commissioning milestones as per section 9)

The Year wise warranty, maintenance and support offered (for 5 years) section E, should be given in the format as provided in Annexure-XVIII

17. Warranty, Operations and Support for 5 years

1. The Selected bidder warrants that the products supplied under the Contract are of the most recent version and that they incorporate all recent improvements in design and/or features. The Selected bidder further warrants that all the Products supplied under this Contract shall have no defect, arising from design or from any act of omission of the selected bidder that may develop under normal use of the supplied products in the conditions prevailing in India.
2. Warranties for OEM products shall be provided on a pass-through basis. There are no implied conditions or warranties.
3. The minimum warranty/AMC period shall be 5 (Five years) years/ 60 (Sixty) months from the date of commissioning and acceptance of the work in totality. The Selected bidder shall, in addition comply with the performance guarantees specified under the Contract. If, for reasons attributable to the Selected bidder, these guarantees are not attained in whole or in part the Selected bidder shall make such changes, modifications and/or additions to the Products or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests.
4. Routine preventive Maintenance of equipments like servers, storage, switches etc. for all the products will be within the scope and needs to be undertaken by the bidder.
5. During the warranty period vendor shall repair/replace at the installed site, at no charge to IIT Patna, all defective components that are brought to the Vendor's notice. Warranty should not become void, if IIT Patna buys, any other supplemental hardware from a third party and installs it within these machines under intimation to the vendor. However, the warranty will apply to such supplemental hardware items installed.
6. During Warranty Period/AMC, Selected bidder guarantees an Uptime of 99.9% on quarterly basis for the entire turnkey solution provided.

7. It is expected that necessary redundancy is built into the provided system for all components whether software or hardware and response time for maintenance complaint from the site installation should be kept minimum so as to maintain uptime of 99.9%.
8. The Selected bidder shall with all reasonable speed, repair or replace the defective products or part thereof without cost to IIT Patna. The response time should not be more than half an hour and the resolution time should be as per SLA below:
 - a. 1% of the original contract value if the bidder is not able to meet below 99.9% to 99.5% service uptime.
 - b. 2% of the original contract value if the bidder is not able to meet below 99.5% to 99% service uptime.
 - c. If the uptime is below 99%, IIT Patna would have the option to levy penalty of 3% of the original contract value or to cancel the Purchase Order/Contract.
 - d. **Calculation of Service Uptime = $[1 - (\text{Downtime} / \text{Total Time})] \times 100$**
9. If the Selected bidder, having been notified, fails to remedy the defect(s) within the period specified above, IIT Patna may proceed to take such remedial action as may be necessary, at the selected bidder's risk and expense and without prejudice to any other rights, which IIT Patna may have against the selected bidder under the Contract.
10. **On-site support and maintenance team:** Services of one operator is required for 24 hours to monitor the surveillance system at control room and intimate the observation immediately to concerned person (list will be provided). The service of operator is required FOR ALL SEVEN DAYS IN A WEEK. The bidder is responsible for the presence of reliever during weekly off and unplanned absence of operator.
11. For general operations like fixing, positioning of cameras, connectivity of network, computing resource, analytics, and running the system, training must be provided to technical team of IIT Patna for one year starting from commissioning day.

18. Delivery of items (Hardware and Software)

Delivery of the Products/Software shall be made by the supplier in accordance with the system approved/ordered. The details of the documents to be furnished by the Supplier are specified hereunder:

1. Three (3) copies of Supplier's Invoice showing LOA/WO/PO number, Products description, quantity, unit price and Total amount.
2. Delivery Note or acknowledgement of receipt of Products from the Consignee or in case of products from abroad original and two copies of the negotiable clean Airway Bill.
3. 2 copies of packing list identifying contents of each package.
4. Manufacturer's/Supplier's warranty certificate.
5. Inspection certificate issued by the nominated inspection agency, if any, and the Supplier's factory inspection report and Quality Control Test Certificates.
6. Certificate of Origin.

Transportation

Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India, defined as the Project Site, transport to such place of destination in India, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price. The Supplier will be entirely responsible for all applicable taxes, duties, levies, charges, license fees, road permits, etc. in connection with delivery of products at site including incidental services and commissioning.

E-way bill will not be supplied by IIT Patna.

19. Project Implementation

The bidder would be responsible, but not limited, to perform the following activities during the installation:

- Checking site readiness for integration
- Meet all plans, specifications and applicable codes and regulatory requirements.
- Installation, deployment and integration of all the hardware and software components of surveillance system.
- Installation of all the accessories, cable and connectors
- Bunching, dressing and labeling of the cables
- Detailed project documentation (operational, functional and technical), troubleshooting manuals, FAQs, end user manuals etc.
- Project Sign off
- Certification
- Develop and implement a quality control system for the project.
- Coordinate with all the stakeholders to ensure that the project design and schedule is met.
- Coordinate with the General Contractor (and all other appropriate groups) on any infrastructure issues arising during construction, including: scheduling, finishes, clarifications, and identified deficiencies.
- Adherence to design specifications, in case of any deviation the same has to be conveyed to design team
- Coordinate with design team for all design related queries
- Submit regular progress reports to project management team
- Adhere to quality of work during the implementation.
- Establish and maintain on site a complete file of all drawings and items submitted.
- Distribute meeting minutes following each progress meeting.
- Coordinate the preparation of punch lists and ensure that all items are completed on a timely basis.
- Adhere to all safety measures at site during implementation.

a. Kick-Off

The start of the project implementation will be marked by Project Kick-off meeting. This meeting will act as launch pad for entire project. The project team of selected bidder should be present during the kick-off meeting. During the kick-off, the implementation related details, stakeholders, project plans etc will be discussed.

b. Go-Live

The Go-Live happens to be one of the most important milestones wherein, all the components of the project has been implemented and integrated in all respect and the entire surveillance system is operational. At this stage, the surveillance system is ready for use and acceptance testing.

c. CCTV Surveillance System Commissioning

This milestone marks final acceptance of the surveillance system by IIT Patna. By this time, all the items in scope of works must be completed with proper documentation and sign-off. This milestone also marks start of the support, warranty and maintenance phase. All the components of the surveillance system (Hardware/Software etc), remains under the responsibility of the selected bidder until this milestone.

d. Acceptance testing

The acceptance test cases and schedule will be provided by the selected bidder covering all requirements and components. The test cases, procedures and plans should be accepted by IIT

Patna and then testing will be conducted accordingly.

On successful completion of installation, commissioning, acceptability test, receipt of deliverables, training & handholding etc., and after the surveillance system runs successfully for three months after “Go-Live” milestone and IIT Patna is satisfied with the working on the system, the acceptance certificate (as mutually decided and approved by IIT Patna) duly attested and signed by the selected bidder and IIT Patna will be issued.

e. Training and handholding End-User Training:

The selected bidder for implementation must conduct end-user training to familiarize the end-users features available in the surveillance system. The schedule and content of such training must be prepared by the bidder and shared with IIT Patna. This training must be supported with the detailed end-user manuals, help documents, FAQs etc.

Technical Training:

The selected bidder for implementation must conduct detailed technical training for the various components of the surveillance system for the technical team of IIT Patna. This must be supported with detailed technical documentation with diagrams, configurations, connectivity and interface details, technical references and literature etc.

Furthermore, a demo test bed setup should be a part of this training.

Operational Training:

The selected bidder must provide handholding and training support for operational requirements. The operations part must be documented appropriately with steps, configurations, illustrative practical use cases etc.

20. Project implementation related documentation

The bidder would be responsible, but not limited, to provide following project related documentation:

- Project team details with hierarchy
- Tracking delivery of materials(hardware/software)
- Maintaining live inventory of all the materials
- Weekly project progress reports and weekly meeting minutes
- Technical and Training documentation
- Acceptance testing
- Installation reports

Although no deviation from design and specifications will be entertained during implementation phase, however, since this is a complex technical surveillance system with many diverse components, in case any such requirement arise which causes blockage in surveillance system implementation, then any deviation from the agreed design and methodology must be properly documented and approved from IIT Patna Team. General Guideline for such deviations:

- a. There is no cost impact.
- b. There is no impact on performance.
- c. It should be for betterment of surveillance system.
- d. There is no impact on any of the surveillance system components.

Non-disclosure and privacy

All the material / information sent to the Bidder/supplier shall be treated as confidential and should not be disclosed in any matter to any unauthorized person under any circumstances. **Day to day data generated will be the sole property of the Institute and it should be treated confidential. In no case the bidder/supplier can store, leak or share the data to any third party.** The successful bidder and their employees deployed on the project have to furnish a Non-Disclosure Agreement (NDA) as per Annexure-XI.

21. Scope of Work & Technical details

The present scope of work includes:

- A. Warranty, Operations and Maintenance for 5years.
- B. Administration, Security, management and monitoring.
- C. Accessibility and user friendliness – Mobile, Desktop, Laptop, tablet, etc.
- D. Backup and restore.
- E. Handling crash, failures, disasters etc.
- F. UPS, electrical and earthing system.
- G. Networking, cabling and connectivity.
- H. Training and handholding – End users and technical team of IIT Patna

IIT Patna will provide only

- 1. Power Supply for running the system
- 2. Internet connectivity, Network infrastructure (as per attached diagram in Annexure-XXI)
- 3. Wild card SSL certificate
- 4. Unfurnished Space for control room.

22. Entry Pass

The contractor has to obtain the **Entry Pass** for his laborers/workers for entry into the campus, which has to be surrendered on termination of work. Otherwise, final payments will not be released.

23. Accommodation

The Institute will not provide any accommodation to the employees who are engaged for maintenance/monitoring of CCTV Surveillance system. It shall be the responsibility of the bidder/contractor to arrange accommodation to the employees.

24. Safety Measures

- (i) The bidder/contractor shall carry out all works in accordance with statutory requirement of Safety Regulations and other rules/acts as applicable.
- (ii) The bidder/contractor or his/her representative must take immediate corrective measures whenever any unsafe conditions/practices are detected.
- (iii) The bidder/contractor or his/her representative shall report any accident to appropriate Authority and also to the Institute Authority. The cause of all minor or major accidents that occur in their job shall be reported and immediate remedial measures shall be taken to prevent recurrence of such accidents and also the responsibilities solely lie on the contractor/bidder.
- (iv) Use of matchbox, lighters and smoking or other such acts, which may cause fire/ accident, are strictly prohibited.
- (v) Institute shall not be responsible for any injury to the staff for maintenance/ monitoring of CCTV Surveillance system and caused in course of their performing the duties or for payment of any Compensation.
- (vi) Contractor shall be responsible for the damage of every sort of the property of the institute due to Negligence of the agency and cost of all such damages will be recovered from the amount payable to the agency.

Note: The Company or Agency shall provide group insurance cover to its employees including medical and accidental insurance for those deployed at IIT Patna.

25. Patent Right

In the event of any claim or demand being made or action being brought against the Purchaser for infringement or alleged infringement of patent rights in respect of any machine, project, work or thing used or supplied as may be applicable in terms of the Contract, by the Contractor, under this Contract, or in respect of any method of using or working by the Purchaser of such machine, project, work or thing, the Contractor shall **INDEMNIFY** the Purchaser from and against such claim or demand and all costs and expenses arising from or incurred by reasons of such claim whatsoever or demand. The Purchaser shall notify the Contractor immediately any claim is made and that the Contractor shall be at liberty if he so desires with the assistance of

the Purchaser, if required, but at the Contractor's own expenses, to conduct all negotiations for the settlement of the same or any litigation that may arise there from and provided that no such machine, project work or thing, as aforesaid, shall be used by the Purchaser for any purpose in any manner other than that for which they have been supplied and/or the works executed by the Contractor as specified under the Contract.

26. Materials and Workmanship

(i) All projects, materials, etc., as may be required to be supplied and/or used and all such work to be executed by the Contractor in terms of the Contract and as per the specification, shall be of the best quality and workmanship, capable of satisfactory operation under the operating and atmospheric conditions as may be specified in the Contract. Unless otherwise specified they shall conform in all respects to the requirements of the latest edition of the relevant Indian Standard specifications on that behalf.

(ii) Contractor may offer equipments, materials etc., as aforesaid, manufactured in accordance with other well recognized standards but shall, in that case, supply a copy in English language of the standard specifications adopted by them and shall clearly mention in what respect such standard specifications differ from corresponding Indian Standard Specifications. These should comply with one consistent set of standards only as far as possible.

(iii) All materials shall be erected after being approved and passed by the Registrar. The erection shall be done according to the best practices being followed with the best erection equipments and tools.

27. Wastage of Materials

On completion of work, the Contractor will return balance items over and above actually used on the work. Wastage shall also be returned either in damaged condition or otherwise. However, the necessity arise to deliver the items in excess of the permissible wastage, as may otherwise be specified in the Contract, the cost thereof shall be recoverable from Contractor's bills at rates as specified in the Contract.

28. Surplus Materials

On completion of the works, all materials left surplus from those supplied by the Contractor under the Contract and those supplied by the Purchaser for erection will be handed over to the Purchaser.

29. Safety of Staff and Labourers

The Contractor shall provide and make all necessary arrangements for safety of staff and labourers at site of work. The Purchaser will not, in any way be responsible for any accident minor, major or fatal, to any person at the site of works or for any damages arising therefrom during erection, which shall be the Contractor's sole responsibility. The staff insurance charges, shall also be borne by the Contractor.

30. Progress Report

Fortnightly reports showing the actual progress made in the receipt of materials by the Contractor and in completion of various works shall be regularly submitted in duplicate by the Contractor to the Registrar.

31. Deviations from Specification

All departures from the Contract Specification shall be subject to the approval of the Registrar.

32. Termination of Contract

- (i) The Institute has the absolute right to terminate the contract at any time by giving one month's notice in writing without assigning any reason whatsoever.
- (ii) Institute shall not be responsible for any loss, damage etc. suffered by the firm/agency/company as a result of such termination of contract.
- (iii) In the event of the bidder/contractor desiring an earlier termination of contract, he/she shall have to give 3 (three) months advance notice to the Institute.
- (iv) In case of termination of this contract/agreement on its expiry or otherwise, the staff, or personnel engaged and deployed/deputed by the bidder/agency/firm, will not be entitled to and will not claim any absorption in the regular or otherwise services of the Institute. The personnel of the bidder/contractor will not claim and will not be entitled to pay, perks or any

- other facilities as admissible to the regular/ confirmed employees of the Institute during the subsistence of the contract/agreement and even after the expiry of the Contract/Agreement.
- (v) Without prejudice to any of the rights or remedies under this contract, if the bidder/agency/firm dies, the competent authority shall have the option of terminating the contract without compensation to the bidder/agency/firm.

33. Payment upon Termination

- (i) If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Registrar shall issue a certificate for the value of the work done less advance payments received upto the date of the issue of the certificate, less other recoveries due in terms of the Contract, less taxes due to be deducted at source as per applicable law. If the total amount due to the Purchaser exceeds any payment due to the Contractor, the difference shall be a “debt” payable to the Purchaser. If the Contract is terminated at the Purchaser’s convenience the Registrar shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor’s personnel employed solely on the works less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract and less taxes due to be deducted at source as per applicable law.

34. Damage to Property

- (i) The Contractor shall be fully responsible for making good or making necessary payment for any loss or damage caused to any structures, properties etc. belonging to the Institute if such loss or damage is due to the faults and or negligence or willful commissions of the Contractor, his/her employees, agency representatives or sub-bidders, as per investigation report of the Institute and whose assessment shall be final and binding on the Contractor.
- (ii) The Contractor shall ensure that electric cable, OFC and other infrastructure are not damaged by the staff deployed/employed.

35. Deployment

- (i) The Contractor shall be responsible for recruitment and deployment of staff for service and the staff so recruited and deployed by him shall be under his direct control/supervision. The contractor shall exercise total superintendence, control and supervision over the staff. However, their work will be evaluated by the representative of the Institute.
- (ii) The employees appointed by the agency for the above job shall have no rights to claim for absorption in the services of IITP and shall also have no claim for continuation with the existing job if the agency is replaced.
- (iii) The contractor shall issue identity cards to all staff engaged for maintenance/ monitoring of CCTV Surveillance system in IIT Patna. The staff should not have any criminal or police cases pending and the contractor has to verify the same in writing and submit the same to the Institute’s Authority. The bidder shall deploy only those whose antecedents have been verified by the police authorities.

36. Discipline

- (i) The staff for maintenance/ monitoring of CCTV Surveillance system, deployed by the bidder/contractor should behave in a proper and courteous manner with all the members of the faculty, staff, and students and will be bound to observe all instructions issued time to time by the Institute’s Authority concerning general discipline and behavior.
- (ii) In case, the staff for maintenance/ monitoring of CCTV Surveillance system, deployed by the bidder/contractor commit any act of omission or commission constituting misconduct or indiscipline, the bidder/contractor will be liable and responsible to take disciplinary action against the staff, including suspension, dismissal from service etc. or removal from Institute’s premises/campus through the agency.
- (iii) The staff for maintenance/ monitoring of CCTV Surveillance system will be allowed to stay in the campus for a period specified for execution of work. It will be the responsibility of the contractor to ensure the staff vacates the campus after their specified period of work.

The bidder/contractor will have to maintain close co-ordination and co-operation with different departments/centres/ sections of IITP as well as with other agencies at the campus. No extra claim on this account shall be payable by the Institute.

Section- A
(Camera and End User Device)

Specifications of ONVIF Conformant, UL Listed Day/Night True IP Full HD Infrared Bullet/Box Camera & Dome Camera

Sl. No.	Technical Specification
1	The camera shall be a Full HD supporting triple streaming
2	The camera shall have a sensor of 4MP resolution and have a True day/night capability
3	The camera shall be compliant with the industry standard ONVIF (Open Network Video Interface Forum) specification with Profile S compliance
4	The camera shall incorporate a built-in web server, so that a standard web browser such as Microsoft Internet Explorer, Mozilla Firefox or Google Chrome can be used to access the camera without need for special viewer software.
5	The camera shall have an advanced function which will allow the camera image to be viewed in standard format.
6	The camera shall have light control mode to select the operating environment, i.e., indoor or outdoor.
7	The Camera should have inbuilt Video Content Analytics i.e. Camera Tripwire, Abandoned/Missing, Audio Detection, Intrusion, Face Detection, Crossing line, Object removal & People counting etc.
8	The camera shall have built-in motion detection capability.
9	The camera shall have privacy zone masking for blocking out unwanted or prohibited areas within the video image to protect privacy.
10	The camera software should include IP Setup (including group camera management) program, Firmware Upgrade Tool, Privacy Masking Tool. The software shall be supplied with the camera as a standard accessory.
11	The camera should have the API network compatibility.
12	The camera shall be capable of automatically transmitting alarm images transfer via FTP file transfer and/or e-mail. In addition the network camera shall support scheduled transfer of image information via FTP to an FTP server.
13	The camera temperature rating shall be -30 °C to 60 °C and Humidity Less than 95% RH
14	The Camera should support Corridor mode that allows cameras to maximize video surveillance in narrow vertical situations
15	The camera shall have a local storage capability via a memory card slot which can Support minimum 100 GB memory card that can cache images in the event of a network failure. The camera shall also support manual/alarm recording to the optional memory card. The camera shall provide notification of the remaining capacity of the memory card
16	The Camera should support ROI allow at least 2 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore it should give the capability to configure these streams individually
17	The Camera support remote monitoring over iPhone, iPad, Android including desktop/PC
18	The camera should have inbuilt IR and cover distance 30 meters or above
19	The housing shall be outdoor rated having IP67 rating for ingress protection.
20	The Camera should have FIPS, UL certified along with CE, FCC, RoHS, and ISO certified

Specifications of ONVIF Conformant, UL Listed Day/Night True IP Full HD Infrared PTZ Camera

Sl. No	Camera Description
	Technical Specification
1	The camera shall be a Full HD PTZ camera supporting triple streaming of codec
	The camera shall have a sensor of 4MP resolution and have a True day/night capability
2	The camera shall be capable of 360 degree pan rotation and a Tilt: 180° auto flip minimum designed for ceiling/wall mount operation
3	The camera shall incorporate built-in 40 X or, more optical zoom, auto-focus zoom lens, and shall have 12X or, more digital zoom capability
4	The camera shall be able to automatically sequence through the preset positions in programmable sequence, i.e., preset tours.
5	The camera should capture images at a frame rate of 50/60fps @1080P resolution so as to give a swift video output even in case of fast moving objects
6	The camera shall be equipped with an intelligent automatic backlight compensation capability, mask settings and level adjustment capabilities to compensate for backlight by masking out brighter areas.
7	The Camera should have inbuilt Video Content Analytics i.e. Camera Tripwire, Cross Warning Zone, Motion Detection, Intrusion Detection, Audio Detection, People Counting, Face Detection
8	The camera shall incorporate a built-in algorithm for intelligent motion detection capability. The camera shall offer this feature with minimum four configurable areas per scene and ten sensitivity levels adjustments.
9	The camera shall have eight or, more privacy masking zone for blocking out unwanted or, prohibited areas within the video image to protect privacy.
10	The camera shall have a local storage capability via a memory card slot which can support 100GB or, more memory card that can cache images in the event of a network failure. The camera shall also support manual/alarm recording to the optional memory card. The camera shall provide notification of the remaining capacity of the memory card.
11	The Camera should be equipped with Optical Defog which can be used to help in improving the captured image in poor weather conditions such as smog, fog, or smoke. The visibility of the cameras can be enhanced in any weather condition. Should have Innovative snow-removing functionality
12	The Camera should be equipped with Electronic Image Stabilization
13	The camera should have Optical glass window with higher light transmittance and IR anti-reflection. The infrared transmittance can be increased & have inbuilt Smart IR to cover distance 250mtr. or above.
14	The camera shall be outdoor rated having IP67 rating for ingress protection with built in Heater and Temperature control system
15	The camera should be surge protection designed for network interface
16	The Camera should have FIPS, UL certified along with CE, FCC, RoHS, and ISO certified

Specifications of ONVIF Conformant, UL Listed Day/Night IP ANPR Network Camera

Sl. No	Technical Specifications
1	The camera shall be a Full HD Box camera supporting triple streaming of codec's
2	The camera shall be compliant with the industry standard ONVIF (Open Network Video Interface Forum) specification with Profile S compliance
3	The camera shall support H.265, H.264, MJPEG and other standard compression.
4	The camera shall incorporate a built-in web server, so that a standard web browser such as Microsoft Internet Explorer, Mozilla Firefox or Google Chrome can be used to access the camera without need for special viewer software.
5	The camera shall have an advanced function which will allow the camera image to be viewed in JPEG & other standard format.
6	The camera shall have light control mode to select the operating environment, i.e., indoor or outdoor
7	The Camera should have inbuilt Video Content Analytics i.e. Camera Tripwire, Abandoned/Missing, Audio Detection, Intrusion, Face Detection, Crossing line, Object removal & People counting
8	The camera shall have built-in motion detection capability.
9	The Camera should support Corridor Format that allows cameras to maximize Video surveillance in narrow vertical situations.
10	The Camera should allow at least Region of Interest 2 sections of the camera view to be streamed separately for distinguished viewing and recording.
11	The camera shall have a local storage capability via a memory card slot which can support 100 GB or, more memory card that can cache images in the event of a Network failure. The camera shall also support manual/alarm recording to the optional memory card. The camera shall provide notification of the remaining capacity of the memory card
12	The camera should have inbuilt or external IR and cover distance 200mtr or, above
13	The housing shall be outdoor rated having IP 67 rating for ingress protection.
14	The Camera should have FIPS, UL certified along with CE, FCC, RoHS, and ISO certified

Camera Requirement with their Location

Sl. No.	Department / Places	Bullet Camera	Dome Camera	PTZ Camera	ANPR Camera	Remarks
1.	Main Gate 1	4		1	3	
2.	Golumber/Round About	4				
3.	STP 1	0				
4.	BLOCK IX + Cycle Stand (G+5)	5	10			2 cameras at each floor stair case/ lift passage.
5.	WORKSHOPS	4	3			
6.	Parking area in front of Workshop	2				
7.	NEW WORKSHOPS	4	3			
8.	WTP 1	0				
9.	BLOCK IV (G+3)	4	4			1 camera at each floor stair case / lift passage.
10.	BLOCK VI (G+5)	4	5			1 camera at each floor stair case / lift passage.
11.	BLOCK III (G+5)	4	5			1 camera at each floor stair case / lift passage.
12.	SUB STATION 1	2				
13.	ADMIN ROUND ABOUT	2		1		
14.	ADMIN BUILDING	6	18			1 Dome camera at each floor stair case / lift passage . 1 for each corridor. (additional GF, 2nd & 3rd)
15.	Rear Side Parking of Admin Building	2				
16.	CAFETERIA / CANTEEN	2				
17.	NEW ROUND ABOUT			1		
18.	RESIDENTIAL GATE	4				
19.	Out Side GIRLS' HOSTEL	2				
20.	Turning to MEN'S PARLOUR SHOP	2				
21.	STP-2	0				
22.	SUB STATION 2	2				
23.	GYMKHANA	10				
24.	WTP-2	2				
25.	MRSS	4				

Sl. No.	Department / Places	Bullet Camera	Dome Camera	PTZ Camera	ANPR Camera	Remarks
26.	Old Boys' Hostel Surrounding	8				
27.	New Boys' Hostel	6				
28.	Hero Cycle Turning	2				
29.	BRIDGE	2				
30.	B Type Quarter Bus Stand	2				
31.	B2 CAR PARKING	1				
32.	B3 CAR PARKING	1				
33.	B1 & B4 Car Parking	2				
34.	B1 QUARTER	1				
35.	B2 QUARTER	1				
36.	B3 QUARTER	1				
37.	B4 QUARTER	1				
38.	STP-3	1				
39.	D type BUS STAND	2				
40.	D1 & D2 Parking	1				
41.	D3 & D4 Parking	1				
42.	D1 QUARTER	1				
43.	D2 QUARTER	1				
44.	D3 QUARTER	1				
45.	D4 QUARTER	1				
46.	SUB STATION -3	2				
47.	C1 QUARTER	2				
48.	C2 QUARTER	2				
49.	SHOPPING COMPLEX	4				
50.	Round About Near Gate 2			1		
51.	MAIN GATE 2	4			2	
52.	SCHOOL	2				
53.	WTP-3	2				
54.	HOSPITAL	2	1			
55.	DIRECTOR'S BUNGALOW	2				
56.	LABOUR GATE	1				
57.	PLAY GROUND GATE	2		1		
58.	Total	137	49	5	5	196

Section-B (Application and Analytics)

Specifications of ONVIF Video Management Software for Cameras

Central & Integrated Video Management and Analytic Software	
Sl No.	Technical Specification
1	The OEM of software should have support, research & development center in India from at least 10 years.
2	CMS features
2.1	Centralized Video monitoring of Unlimited cameras spread across multiple sites and places
2.2	Should support Integration with external devices like Access Control, and PIDS (Perimeter Intrusion Detection System)
2.3	Alerts in central station according to rules.- Email, SMS, Phone call without auto dialer, Sound alert, Pop up
2.4	Video Analytics alerts: Camera Tampering, Intrusion , Crowd count and Detection, Perimeter Violation, Object Left/Abandoned Baggage, Loitering, Stopped Vehicle, Illegal Parking, Missing object
2.5	Situation Management by defining appropriate actions and acknowledgement for alerts
2.6	Connection to Multiple monitors for Live(Fixed and PTZ), Alarm, Maps screens
2.7	E map showing status of all cameras, devices and Alarms- Connects and Disconnect Status reports
2.8	VMS and Analytic software should be from same OEM
3	Video Management Specifications Recordings:
3.1	Should record H.265, MPEG4 or MJPEG in at minimum 25 fps at minimum Full HD (1080p) resolution.
3.2	Supports RTP over UDP, RTP over TCP and http streaming
3.3	Should support multiple brand IP camera and encoders.
3.4	Should support dual streaming and recording at different qualities of videos
3.5	Calculate storage size based on number of cameras, days and drives available in the system
3.6	Option to record at low frame(I-frame) and high frame rate on Motion
3.7	Export recording possible in client and remote PC also with proper authentication.
3.8	Option for Window-Pop up, Email, Sound alarm, SMS on recording or video loss.
3.9	Storage and Bandwidth calculation: Recoding size estimation for each hard disk attached to the server. Option to check disk size of individual camera.
3.10	Image Enhancement on recorded videos. The image enhancement should be able enhance videos of fog, rain and low light conditions.
3.11	The option of email and Video Pop up event on Low disk space. The system should alert user on low disk space event.
3.12	Automatic archiving after set number of days and automatic recording deletion after disk full.
4	Live, Playback & PTZ:
4.1	Live View possible for minimum 64 cameras simultaneously on 1 screen or multiple monitors using software video wall.
4.2	Dual Streaming and Automatic Switching from Low to High Quality while viewing.

4.3	Option to change Live View directly from cameras or from VMS server
4.4	It should support live view and Playback from minimum 10 clients- Both local and remote.
5	Digital Zoom :
5.1	Both complete live picture and Zoomed picture should be visible simultaneously while zooming.
5.2	Should be available On Live and Playback Videos.
5.3	Zoom available on snapshots too.
6	PTZ:
6.1	PTZ option available through mouse and joystick
6.2	Gaming joystick as well as PTZ joystick options available
6.3	On screen PTZ control with Click and Zoom facility
6.4	Live view and Playback available at the same time with Playback window on top of live view window
6.5	Instant Playbacks available as window pop up on click of an event from Event Screen.
6.6	Image Enhancement Analytic available in Playback. Option to sharpen the video image through scrollbar.
6.7	Playback Navigation Tree View with Recording server, camera list, year/months list and the date wise play list
6.8	Playback option for frame-by-frame
6.9	Playlist with files listed for each date and or time. User can click on any file to play recording.
6.10	E-map client should show icon blink and voice alert of the event. Should be able to take snapshots from Google Map if connected to internet
6.11	Two-way audio communication between camera and VMS. Option to send/broadcast Audio to multiple cameras
7	Failover Support:
7.1	Both Management and Recording Server failover to avoid recording loss of more than 30 seconds.
7.2	Complete system including clients automatically switched to Failover server in case main server is down
8	360 Fisheye degree camera support:
8.1	360 degree fisheye camera Support:
8.2	Quad, Double and Click View options
8.3	Option of saving and retrieving Presets for fisheye cameras.
9	Mobile Surveillance & Remote Viewing:
9.1	Ability to view live video on iOS and Android phones or devices with or without installing proprietary Apps.
9.2	Ability to receive alerts/notifications on Mobile phones with and without SMS using Push technology.
9.3	PTZ Control on Mobile App and Remote Locations
9.4	VMS and Mobile App support for multiple sites spread across WAN to be controlled and viewed from central location.
9.5	Remote Administration over internet.
10	Alarms, Video Analytics, Event Notification & Offline Analytics for post- event analysis (Separate License):
10.1	VMS and Video Analytics should be from same vendor.
10.2	Perimeter Trip wire. Crossing Virtual line
10.3	Object counting or people/vehicle counting analytics

11	Crowd Counting and detection
12	Fire Detection
13	Smoke detection
14	Intrusion detection on schedules time intervals
15	Abandoned Baggage Detection
16	Missing object Detection. Multiple objects selection
17	Image Enhancement for fog and low light conditions
18	Camera Tampering Detection for camera blurred video or blocking
19	Features required in Analytics:
19.1	Analytics can be applied in Full HD-1080P resolution, H.265 compression and 25fps.
19.2	Both offline and Real time analytics options available.
19.3	Option to Email and Push Alarm any Event to mobile phones. Push method should be without SMS
20	Camera Device Support:
20.1	Should support multiple brand IP camera, encoders and DVRs. No restriction on camera hardware.
20.2	Should support ONVIF
21	Alarm Centre:
21.1	Ability to pop-up cameras in alarm screen. A separate screen provided where Cameras are opened dynamically based on priority of alarms.

Video Management Software

Sl. No.	Video Management System	Compliance Status through OEM along with Data sheet
1	MAKE & MODEL	
2	Manufacturing authorization submission status & date	
3	The Video Management System (VMS) software shall be used to view live and recorded video from capture cards and IP devices connected to local and wide area networks. The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more Workstations.	
4	The VMS shall not charge for the number of concurrent clients	
5	The VMS offered must be redundant with N+1 configuration	
6	Recording of all video transmitted to the VMS shall be continuous, uninterrupted and unattended	
7	The VMS system shall manage the video it has been configured to monitor. Loss of video signal shall be configured to annunciate on VMS client by an on-screen visual indication alerting operators of video loss.	
8	The VMS software shall have an open architecture supporting IP cameras and encoders from multiple manufacturers providing best-of-breed solutions ranging from low-cost, entry-level features to high-resolution, megapixel features.	
9	The VMS client software shall be able to view live video and audio, recorded video and audio and be able to configure the complete system all from a single application when it is run locally on the same computer as the server software	
10	The VMS client software shall operate on Windows/Linux /Mac/Others operating systems	
11	The VMS software shall allow the user to have any combination of VMS client applications running on any of the supported operating systems and be able to connect to any of the VMS servers running on any of the supported operating systems	

Sl. No.	Video Management System	Compliance Status through OEM along with Data sheet
12	The VMS software shall have the capability to run multiple client applications simultaneously on one workstation with multiple monitors. Up to 4 monitors shall be configured on a single workstation with one client application running on each monitor.	
13	The VMS shall also allow an authorized user to view video through a web client interface (Multiple Options for authentication). The web client interface shall allow authorized users to view live video, view recorded video, control pan-tilt zoom (PTZ) cameras and activate triggers. The web client interface shall allow connections to multiple VMS servers simultaneously	
14	The web client interface shall operate without requiring installation of any software When using the web client interface	
15	The web client interface shall support all Leading browser	
16	The VMS server software shall record and retrieve video, audio and alarm data and provide it to the VMS clients upon request	
17	The VMS software shall provide at no additional charge a purpose built mobile application capable of viewing multiple simultaneous live video streams and playing a recorded video stream.	
18	The VMS shall license the total number of cameras on the system. This license shall be based on the MAC address of a single network card that is present on the system.	
19	The VMS shall be able to Customized the layout as per requirement to view cameras video view panel	
20	The VMS software shall support searching through recorded video based on time, date, video source and image region and have the results displayed as both a clickable timeline and a series of thumbnail images	
21	The proposed VMS shall be having integrations with 50 or more IP CCTV Brands. This information shall be available over the Web with all test results.	

Section-C
{Computing Resources (Like server, workstation etc.)}

Specifications of Recording or Media Server Specification for Data Center- (SAN)

S. No	Characteristic	Description	Compliance
1	Form factor	Recording server should be an enterprise-class server	
2	CPU	Should have Intel Xeon processor with at least 2.3GHz speed & with 6-core or higher CPU	
3	SAS drive	Should support 12 or, more Number of Hot-swappable SAS drive	
4	Integrated Ethernet Port	Gigabit Ethernet Port	
5	USB Port	2 ports or, more (USB 3.0)	
6	Integrated Ethernet Port	Dual Gigabit Ethernet Port	
7	RAID Controller	As per solution requirement	
8	Fans & Power supply	Dual-redundant fans and hot-swappable, redundant power supplies	
9	Memory	Should have minimum 16GB DDR4 RAM , as per solution sizing requirements	
10	Storage	As per storage specs given below	
11	OS/Recording/VMS licenses	Server should be supplied with Latest Class Server Operating System equivalent in features to Windows Server 12 or Latest. Server should be supplied with VMS licenses.	

Specifications of High End Commercial Workstation with Win-10 or better

Sr. No.	Description	Compliance
	7th generation Intel Core i7 (Including I7-7700K Processor) and i5; 6th generation Intel Core i7, i5 and i3; Intel® Xeon® Processor E3-1200 v5 Family;; Intel Turbo Boost technology(5) and Intel Integrated HD Graphics on select, Intel® C236 Chipset, 4 Dimm Slots; Up to 64GB 2400Mhz Non-ECC & ECC DDR4 Memory	
	Windows® 10 Professional (64 bit)professional or better	

Section-D
(Display and Video wall)

Video Wall

Sl No.	Parameter	Specification	Compliance Status through OEM along with Data sheet
1	MAKE & MODEL		
2	Manufacturing authorization submission & date		
3	Display	DLP	
4	Resolution	FULL HD	
5	Viewing Angle	170 degree or better	
6	Mean Time Between Failure	50000Hrs. or above	
7	Screen	Burn free	
8	Control	IP based control to be provided	
9	Remote	Remote control should also be provided for quick access	
10	Screen Support	Screen should have an Anti-Reflective Glass	
11	Cooling Inside	By Means of any advanced cooling mechanism	

Specifications of Video Wall Solution 2X2 Matrix

Technical Specification			
Sl. No.	Parameter	Minimum Required Specifications	Compliance
1.	Configuration	Full HD IPS LED/DLP Display, Direct LED Backlight, Display suitable for use in video wall with bezel to bezel distance not more than 3 mm	
2	Screen Size	55" X 2 X2	
3	Resolution	Full High definition (3480 X 2160) 16:9 Widescreen	
4	Contrast Ratio	1200:1 or better	
5	Brightness	500 Cd/m2 or better	
6	Refresh Rate	60 Hz or better	
7	Viewing Angle	170 degrees or better	
Interface			
8	Standard Inputs	Digital DVI-I ; 1x Digital DVI D/HDMI Port or Higher	
9	Standard Outputs	igital DVI D / 1x DP 1.2	
Power			
10	Consumption	Not more than 300 Watt per display unit	
11	Power Supply	AC 100 240 V- (+/- 10 %), 50/60 Hz	

Sl. No.	Parameter	Minimum Required Specifications	Compliance
General			
12	Operating Temperature	0°C to 48°C	
13	Humidity	20% 90%, non condensing	
14	Certification	ANSI/ETL/UL, FCC, CE, BIS certified at the time of bidding	

Specifications of 55" Full HD LED Display

Sl. No.	Parameter	Specification	Compliance
1	Screen Size:	55"	
2	Panel:	DIRECT LED	
3	Resolution (H x V):	1920 x 1080 pixels	
4	Viewing Angle:	170 degrees or better	
5	Power	220-240 V AC, 50/60Hz	
6	Power Consumption:	Less than 250 W or, better	
7	Temperature:	0 to 50 degrees C	

Specifications of 43" Full HD LED Display

Sl. No.	Parameter	Specification	Compliance
1	Screen Size:	43"	
2	Panel:	DIRECT LED	
3	Resolution (H x V):	1920 x 1080 pixels	
4	Viewing Angle:	170 degrees or better	
5	Power	220-240 V AC, 50/60Hz	
6	Power Consumption:	Less than 250 W or, better	
7	Temperature:	0 to 50 degrees C	

Section- E
(Storage)

Unified Storage Technical specifications

Unified storage solution supporting both SAN/ NAS features with wide range of technology and features in the storage area.		
S. No.	Feature	Specifications Required
1	Storage	<ul style="list-style-type: none"> As per solution requirements (90 days backup)
2	Controller details	<ul style="list-style-type: none"> Redundant, hot-pluggable Active-Active Array Controllers RAID Levels supported 0, 5, 6, 10 or equivalent Cache memory of min 48GB across dual controllers or above
3	Features & protocols	<ul style="list-style-type: none"> Offered storage would be Unified/ Converged storage system and support File, block and object services respectively.
4	Physical interfaces and connectivity	<ul style="list-style-type: none"> As per sizing requirements
5	Benchmarking and certification	<ul style="list-style-type: none"> Compliant with the electromagnetic compatibility (EMC) and product safety regulations/standards EMC compliance is based on FCC part 15, CISPR22/CISPR24 and EN55022/EN55024 standards, including applicable international variations. Product Safety compliance is based on IEC 60950-1 and EN60950-1 standards, including applicable national deviations. Restriction of Hazardous Substances (RoHS) compliance The OEM for proposed solution must be in the leader's quadrant of Gartner's Magic Quadrant.

6	Management and monitoring	<ul style="list-style-type: none"> Firmware should be upgradeable for functionality improvement and enhancements. Must support non- disruptive upgrade of core software, BIOS, writeable snapshot, remote mirroring and management software without shutting down the storage system. All host- attached servers must remain fully operational during system level or maintenance upgrade procedures. Must support data-in-place upgrade of existing storage controllers to higher generation controller. Entire system must be manageable from a web-based single, secure interface without requirements for a separate management device or server. Management system must include comprehensive online and remote monitoring abilities without third party hardware or software. At-a-glance, comparable views of current aggregate capacity statistics and overall storage resource objects for all SANs of same series from the vendor Storage must be supplied with all necessary hardware appliance and software for carrying out all management (configuration, diagnostics etc.) activities on the storage. Necessary Mounting Kit to install the storage in a 42U rack must be supplied.
7	Power and cooling	<ul style="list-style-type: none"> Redundant, Hot-swappable

NAS

#	Component	Description
01	Gartner standing	The OEM for the proposed Storage must be in Leaders quadrant of latest Gartner's report of "Magic Quadrant for General-Purpose Disk Arrays"
02	Software	As per solution requirements
03	Processor	Dual Intel Xeon E5-2630 v3 2.4GHz processor or latest
04	Hard Drives	As per solution requirements
05	Memory	As per solution requirements
06	Networking	As per solution requirements
07	Management	Enterprise management
08	Tape Support	As supported by parent platform
09	Microarchitecture	As per solution requirements
10	RAID Controller	Hardware 12Gbps PCIe 3.0, 1GB cache with support for RAID 0, 1, 5, 6, 10, 50 & 60
11	iSCSI Target	To be provided
12	Video	As per solution requirements
13	Power Supply	Dual redundant and hot-swappable
14	Fan	Redundant and hot-swappable

Section- F

{Connectivity, cabling & other accessories (passive, active rack etc.)}

Specifications of Layer-3 Fully Managed Gigabit Switch

General requirement: The OEM for Switching and networking for the proposed solution must be in the leader's quadrant of Gartner's Magic Quadrant for latest two years.

Sl. No	Required Specification	Compliance
1	The Switch should have 24 ports or, more	
2	The Switch should have dual redundant power supplies.	
3	The Switch should also support 440W DC power supply.	
4	The Switch should be based on a Modular OS Architecture	
5	The Switch should have Multi-core CPU Architecture.	
7	The switch should be Rack Mountable	
8	The Switch Architecture should be able to Stack at least 4 Switches together.	
9	The Switch should support Stateful Switchover (SSO) when switching over from Active to Standby switch in a Stack.	

Safety & Compliance (Switch should support all of the mentioned standards)

Specifications of Layer-2 Fully Managed Giga bit Switch

Sl. No	Required Minimum Specification	Compliance
1	The switch should support 24 or, more numbers of Ethernet PoE/POE+ Ports	
2	The switch should support a Multi-Core CPU	
3	The switch should support Stacking	
4	The switch should support a Dual Redundant Modular Power Supply	
5	The switch should support Static Access Ports	
6	The switch should support Port Security	

Specifications of industrial grade Layer-2 Fast Ethernet Switch

Sl. No.	Specifications	Compliance
1	Switch should support PoE or POE+	
2	Switch should be complied with Industrial environmental compliance and certifications i.e. Ethernet/IP (CIP)	
3	Switch should have secure access using port security features.	
4	Switch should support Operating temperature -40 C to +70 C (vented enclosure operating), -40 C to +60 C (sealed enclosure operating), -34 C to +75 C (fan or blower-equipped enclosure operating)	

Copper/ Fiber connectivity technical specifications

Must follow Structured Cabling Standards:

- TIA/EIA-568-C.2 and ISO/IEC 11801 standards - Commercial Building Telecommunications Cabling Standards (latest revision)
- TIA/EIA-569 Commercial Building Standard for Telecommunications Pathways and Spaces
- TIA/EIA-568C.3 Optical Fiber Cabling Components Standard.
- TIA/EIA-607 Grounding and Bonding.
- TIA/EIA-598-B Optical Fiber Color Coding.
- TIA/EIA-604.2, FOCIS 2-Fiber Optic Connector Intermateability Standard.
- TIA/EIA-568-C.1-4 Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements, Addendum 4-Additional Media-Recognition of Category 6 and 850 nm Laser-optimized 50/125 um Multimode Optical Fiber Cabling.
- TIA/EIA-568C.2.1 Optical Fiber Cabling Components Standard. Addendum 1- Additional Transmission Performance Specification for 50/125 um Optical Fiber Cables.

PASSIVE SPECIFICATION
(General Terms & Conditions)

OFC Components Compliance

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	OEM should be a Company registered in India under the Indian Companies Act 1956 and should be in existence in India for past 20 years.	
2	OEM should have toll free Number and warehouse in India.	
3	The cabling should be certified to have application support warranty for Next 20 years.	
4	All UTP & OFC Components should be from the same OEM.	

SM Fiber Cable

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	The fiber type is a Matched Cladding Single Mode	
2	Fiber dual coated with acryl ate coating.	

FIBER PATCH PANELS – RACK MOUNT

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	Have sufficient slots accommodate Simplex/duplex SC/LC/FC adapters Individually	
2	Aluminum base material for light mounting	
3	Should have Splice Tray & Cable Spool provision inside	
4	Accessory kit consists of cable ties; mounting ear screw earthling and Spirals wrap tube.	
5	Removable Rear & Front cover for better access to interior of LIU	
6	Snap-in Locker Design for easy to change adapter panels.	
7	Removable Rubber grommet to allow for pre-terminated fiber trunk installation, protect cable and minimize dust build up	

ADAPTORS

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	All SC/LC/FC adaptors should be Simplex and duplex type. Adapters should have compact design & high precision, which perform well under various circumstances & maintain good plug retention strength.	

Specifications of Optical Fiber Equipment Cords (3 meter or, more)

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	All optical fiber patch leads shall comprise of Single mode 9/125µm fiber with SC/LC/FC, fiber connectors terminated at each end	
2	Colour-coded	
3	Simplex / Duplex	
4	Working Temp : -40 deg C. to + 85 deg. C	

Specifications for Passive Items Cables & other components Category 6 Components

Sl. No	Desired Specification/Qualitative Requirement	Compliance
1	Cable should UV Resistant, Sheathed and Suitable for Outdoor Installations.	
2	Cable should support operating Temperature from -20° to +60°C	
3	Cable should come with printed sequential Length Counter on each meter	
4	Cable support CONDUCTOR RESISTANCE (DC): 7.2Ω/100MTR@20°C. MAX.	

Specification for Category-6 24/48 PORT JACK PANEL

Sl. No.	Min. Required Specification	Compliance
1	Be made of powder coated steel, in 24/48 port configurations.	
2	Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.	
3	Have port identification numbers on the front of the panel.	
4	Should have self-adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel, with optional colour labels / icons.	

Specification for Category 6 MOUNTING CHORDS

Sl. No.	Requirements	Compliance
1	Category 6 Equipment cords	
2	Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wing.	
3	The work area equipment cords shall, at a minimum comply with Commercial Building Cabling Standards Transmission	
4	Temperature range: -10oC to +80oC	

5	Operating life: Minimum 750 insertion cycles	
6	Insulation resistance : 35 M Ohm (Max)	
7	Operating temperature: -10oC to 80oC	

Technical Specifications of 6 U Racks

Sl. No	IP 55 Outdoor Wall Mount Rack 6U	Compliance
1	A very compact design, welded structure with front accessible	
2	The side panels are integrated type & welded with top	
3	Rigid frame that can be fixed to the pole	
4	Front Door with Filter, Lock & Key	
5	Self adhesive thermal foam from inside	
6	Door Hinges - 2 Nos.	
7	Cable Glands at bottom side for cable entry	
8	Gasket (As per IP55 Standard)	
9	Wall Mounting Brackets at rear side- 2 Nos.	
10	Hood For Air Inlet at front side	
11	Powder Coated Surface	

Specification for 9U Rack

Sl. No.	Specification	Compliance
1	Rack 9 U	
	Adjustable, equipment mounting verticals provide the better mounting flexibility and maximizes the usable mounting space	
2	Top and bottom Panel with ventilation and cable entry facility	
3	Provision to mount the cooling fans on the top panel	
4	Powder coated finish with pre-treatment process meeting all industry standards	
5	Standard Colour : Grey or Black	
6	Static Load: 40 kgs.	

Specification for 4U Rack

S1. No.	Requirements	Compliance
1	STEEL body with caster Wheels Set of 4 (2 with Brakes & 2 without Brakes)	
2	Adjustable	
3	Glass Door/ Metal Door, Vented Side Panels	
4	Top and bottom Panel with ventilation and cable entry facility	

5	Provision to mount the cooling fans on the top panel	
6	Powder coated finish with pre-treatment process meeting all industry standards	
7	Welded to Frame, Vented and Field Cable entry exit cut outs	

SAN switch technical specifications

#	Component	Description
01	Make & Model	(Specify)
02	FC ports	16Gbps SAN switch configured with 24 active ports (with required connectors & licenses)
03	FC cables	24 nos. 5 mtr LC-LC FC cables

Virtualization: Red Hat or VM ware with HyperV or Microsoft Virtualization

Certifications/Benchmarking etc for Hardware components

Compliance to nationally and internationally recognized standards and best practices Parameters followed in India and/or developed countries respectively for hardware equipments like:

- a) Minimum Electromagnetic interferences and radiations considerations (All or subset of this. Vendor must provide exact details in solution).
 - EN55022 Class A,
 - FCC Part 15 Class A,
 - CISPR 22 Class A,
 - Nationally recognized standards like BIS etc.
- b) Minimum Safety considerations (All or subset of this. Vendor must provide exact details in solution).
 - CSA 60950-1 Safety of Information Technology Equipment
 - UL 60950-1 Safety of Information Technology Equipment
 - EN 60950-1 Safety of Information Technology Equipment
 - IEC 60950-1 Safety of Information Technology Equipment
 - Nationally recognized standards like BIS etc.
- c) Green technologies and power efficient: Internationally accepted Standards like Energy star 6, EPEAT Silver or more, BEE applicable schedule etc.

All the equipments, components must have the operating conditions aligned to the deployment location like weather, temperature; humidity etc or proper arrangements must be made to ensure the appropriate operating conditions.

The duly attested documents for certifications and benchmarking must be provided with the bid documents.

The duly attested data sheet for any equipment (Hardware or Software) not mentioned above but required for solution must be provided with the technical bid. Bidder has to ensure that such hardware or software is of quality make and model with proper Indian or International benchmarking and certification. If denouement of evaluation of such equipment is unsatisfactory then bidder may be penalized during technical marking.

Section- G
UPS, Earthing and Electrical Accessories

Specifications of 5 KVA online UPS

S. No.	Parameter	Technical Requirement	Compliance
1	MAKE		
2	Capacity	5KVA with inbuilt galvanic isolation transformer	
3	Voltage	230V	
4	Voltage Range	160V – 300V AC	
5	Battery Type	Sealed Maintenance Free Lead Acid Battery,12V each of uniform AH rating	
6	Battery Charging	Constant current & constant voltage	
7	VAH Required	9072 VAH or more	
	Power Flow	0.9 output	
8	Back Up Time	Up to 110-120 Mints on 100% Load	
9	Display	LED/LCD Display on front Panel	
10	Certification	CE & BIS, ROHS	

Specifications of 2 KVA online UPS with Single Phase in &Out

S. No.	Parameter	Technical Requirement	Compliance
1	MAKE		
2	Capacity	2 KVA with inbuilt galvanic isolation transformer	
3	Voltage	230V	
4	Voltage Range	160V – 300V AC	
5	Battery Type	Sealed Maintenance Free Lead Acid Battery,12V each of uniform AH rating	
6	Battery Charging	Constant current & constant voltage	
7	VAH Required	9072 VAH or more	
8	Back Up Time	Up to 110-120 Mints on 100% Load	
9	Display	LED/LCD Display on front Panel	
10	Certification	CE & BIS, ROHS	

Battery bank with UPS

- a. Shall be supplied with SMF lead acid, leak proof battery only. As a proof of type testing bidders can produce registration certificate of OEM indicating registration of item to JIS C8702 PART ANNEXURE.
- b. Bidders shall declare battery AH capacity, battery voltage, number of batteries of each rating, make and model of batteries, battery life offered with each item of UPS.
- c. The UPS shall be complete with Trolley for battery bank,battery,Cables and connectors etc. and the bidders shall also connect the batteries with UPS and do commissioning of the same.
- d. Normally the battery life is about 3 to 4 years. Hence during the period of 5 years operation and maintenance, the bidder would change of battery once..

BATTERY STAND

The stand for supporting battery cells shall be provided. The stand for battery cell shall be manufactured from best quality seasoned teak wood/MS steel enclosed trolley/ with at least three coats of anti-sulphuric paints/other as per approved Indian standard. The racks shall be freestanding type. Suitable porcelain / plastic insulators shall be provided between the stand and the battery room floor. Number plate to designate each cell of battery shall be provided and shall be attached on the rack. Provision shall be made for clamping outgoing cable on the rack. The cell shall be supported on the rack in suitable row and tier formation with adequate clearance between adjacent cells. Provision needs to be made for movement of battery stand during maintenance.

POLARITY MARKING

The polarity of the terminals shall be marked for identification. The positive terminals may be Identified by 'P' or a (+) sign of red colour mark and the negative terminals may be identified by 'N' or (-) sign of blue colour mark. Marking shall be permanent and non-deteriorating.

Earthing System:

- a. Earth resistance should be less than 1 ohm.
- b. Earth neutral difference should be less than 1 V.

Note: Cabling – The OFC and other cabling of CCTV solution shall be underground with conduit (PVC)/HDPE and proper marking to be provided on the ground for route location of the cable underneath

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

To,
The Registrar,
(for Stores & Purchase Section)
Indian Institute of Technology Patna
Kanpa Road, Bihta, Patna, Bihar-801106
Phone: 0612-302-8683

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No.: _____

Name of Tender / Work:-

Dear Sir/Madam,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned "Tender / Work" from the website(s) namely:

2. _____ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / We have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organizations too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirely.
5. I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department / Public Sector Undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department / organization shall without giving notice or reason thereof or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including forfeiture of the full said EMD absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

ESSENTIAL ELIGIBILITY CRITERIA

Criteria	Response	Supporting Document
1. The bidder should have at least three years of experience in implementation of Information and communication technology service and surveillance system for hardware and software as turnkey project. The bidder must provide self-attested yearwise experience details and Annexure-V.		
2. For the financial and operational stability, the bidder should have a yearly turnover of at least one and half crores over the last three years. The CA certified financial statements must be provided along with Annexure-IV.		
3. The bidder should have a successful track record, and should have implemented similar work (Installation, commissioning and maintenance of CCTV Surveillance system) at any of the following : c. At least three of Rs. 70 Lakhs each or more, d. Or at least two of 1 Crore each or more, e. Or at least one of 2 Crores in IIT, NIT, IISER , institute of national importance, PSU or corporate. The bidder must provide the relevant PO's/Letter of award of work and completion certificate for the same.		

Seal and Signature of Authorized Signatory

FINANCIAL INFORMATION

I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/profit and loss account for the last five years duly certified by the Chartered Accountant, as submitted by the bidder to the Income Tax Department (copies to be attached).

Particulars	Financial Year		
	16-17	17-18	18-19
(i)Gross Annual Turnover (In Lakhs Rupees)			
(ii) Profit/Loss (In Lakhs Rupees)			
(iii)Income from IT service and wws (In Lakhs Rupees)			

a) Current Income Tax clearance Certificate/Profit & Loss account

Signature of Chartered Accountant with seal

Signature of Bidder(s)

**DETAILS OF ASSIGNMENTS PROJECTS OF SIMILAR NATURE COMPLETED
DURING THE LAST FIVE YEARS ENDING 31.03.2019**

Sr. No.	Description	Project Details
1	Name of work/project and Location	
2	Project Objectives	
3	Name & Address of Employer/organization	
4	Cost of work in Rs.	
5	Complexity of the task (modules, etc.)	
7	Date of commencement as per contract	
8	Stipulated date of Completion	
9	Up to date percentage progress of work	
10	Slow progress if any and reasons thereof	
11	Name and address/email and telephone number of officer to whom reference may be made.	
12	Remarks	

* For each work separate sheet be prepared as per Performa given in form 4.

Signature of Bidder(s) with date & seal

ASSIGNMENT / PROJECTS OF SIMILAR NATURE UNDER EXECUTION OR AWARDED

Sr. No.	Description	Project Details
1	Name of work/project and Location	
2	Project Objectives	
3	Name & Address of Employer/organization	
4	Cost of work in Rs.	
5	Complexity of the task (modules, etc.)	
7	Date of commencement as per contract	
8	Stipulated date of Completion	
9	Up to date percentage progress of work	
10	Slow progress if any and reasons thereof	
11	Name and address/email and telephone number of officer to whom reference may be made.	
12	Remarks	

* For each work separate sheet be prepared as per Performa given in form 5.

Signature of
Bidder(s) with date &
seal

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM '4' & '5'

- 1) Name of work/Project & Location
- 2) Agreement No.
- 3) Estimated Cost
- 4) Tendered Cost
- 5) Date of start
- 6) Date of completion
 - i. Stipulated date of completion
 - ii. Actual date of completion
- 7) Amount of compensation levied for delayed completion, if any.
- 8) Performance Report

1. Quality of work	Very Good/Good/Fair/Poor
2. Financial soundness	Very Good/Good/Fair/Poor
3. Technical Proficiency	Very Good/Good/Fair/Poor
4. Resourcefulness	Very Good/Good/Fair/Poor
5. General Behavior	Very Good/Good/Fair/Poor

Date:

Authorized Signature

Note: - Certificate for each project completed/under execution shall be obtained as per “Annexure-VII” and given in separate sheets. At this location, images of these certificates can be scanned and pasted in the softcopy of this document.

STRUCTURE & ORGANIZATION

Name & Address of the bidder	
Telephone No. Telex No. Fax No.	
Particulars of registration with various Government bodies (attach attested photocopy) a. Organization/Place of Registration b. Registration No.	
Name and Titles of Director & Officers with designation to be concerned with this work	
Designation of individuals authorized to act for the organization	
Has the bidder, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.	
Was the bidder ever required to suspend assignment for a period of more than six months continuously after commencement of the assignment? If so, give the name of the project and reasons of suspension of work.	
Has the bidder ever been debarred / black listed for tendering in any organization at any time? If so, give details.	
Has the ever been convicted by a court of law? If so, give details	
Any other information considered necessary but not included above	

PRODUCT INFORMATION

(To be filled in for each Software/HW component of surveillance system)

Product Name	
Current Version and Release Date	
Number of Clients using the Product in Real Production Installations in the last financial year	
Largest customer for this Product by: Number of Users Transaction Volume Number of Locations	
Percentage of Total Business	
How can the software/HW be acquired? (Purchase/lease/other)	
In case of SW licensing, explain software licensing system fee structure. Is it restricted as to location of installation e.g. global?	
If there are any other features that will be useful in evaluating the product(s) /Surveillance System, please state them	
Is your product having any specific version or module for Academic Institutions?	
What major enhancements are planned with respect to Academic Institutes like IITs / General Enhancements?	
Describe the major limitations on the use of the proposed products.	
Is the source code available (SW product)?	
Indicate contractual agreements, which would be applicable, if your proposal is ultimately accepted. Sample copies should be attached. Software purchase Software licence Software maintenance /AMC * * Indicate clearly if up gradation to new a version is a part of AMC?	
Has there been a major rewrite of the proposed systems since the original?	
What is the road map of your product for the next 3 to 5 years? Please state in detail. Use additional sheets if required.	
How many releases of your product have been produced during the last five years?	
What is the next scheduled major release of your software?	
How often are new versions released?	
Is the license agreement on per site, per CPU, per concurrent user, per named user, per server license, per database or enterprise basis?	
Licensing Information of all the components of the product must be provided with supporting license agreements, MAFs, OEM certifications etc.	

Component Licensing Information

[illegible]

Non-Disclosure Agreement (For selected bidder only)

THIRD PARTY NON-DISCLOSURE AGREEMENT

I, _____, on behalf of the _____ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with IIT PATNA on contract is confidential and that the nature of the business of the IIT PATNA is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the IIT PATNA. Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business/Functional/Operational information: Employee/Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to IIT PATNA all documents and property of IIT PATNA, including but not necessarily limited to: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to IIT PATNA's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing. **Day to day data generated shall be the sole property of IIT Patna and I/we will treat it as confidential. I/We, in no case, will store, leak or share such data to any third party.**

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the IIT PATNA, and are reasonable given the nature of the business carried on by the IIT PATNA. I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress. Dated at _____, this _____ day of _____, 20.

Name Company

Signature

PRE CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ 2010, between, on one hand, the President of India acting through Shri _____, Designation of the officer, Ministry / Department, Government of India (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise required, his successors in office and assigns) of the First part and M/s _____- _____ represented by Shri _____, Chief Executive Officer (hereinafter called the “BIDDER/ Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered in with a view to : -

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, with demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
 - 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage commission, fees, brokerage or inducement o any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.
 - 3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
 - 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
 - 3.5 The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether India or foreign to intercede, facilitate

or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of the Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount _____ (to be specified in RFP) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:

- (i) Bank Draft or a Pay Order in favour of _____
- (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
- (iii) Any other mode or through any other instruments (to be specified in the RFP).

- 5.2 The Earnest Money / Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions of Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

- 5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanction for Violations

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the BUYER, and in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other

contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the buyer, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor (s) appointed for the purposes of this Pact.

7. Fall Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact of payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

9. Law and Place of Jurisdiction

This Pact is subject Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

10. **Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

11. **Validity**

11.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, Including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The parties hereby sign this Integrity Pact at _____ on _____

BUYER

BIDDER

Name of the Officer

CHIEF EXECUTIVE OFFICER

Designation

Deptt./MINISTRY/PSU

Witness

Witness

1. _____

1. _____

2. _____

2. _____

PROFORMA FOR BANK GUARANTEE AS EARNEST MONEY DEPOSIT (EMD)

**(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT, IF ANY, OF THE COUNTRY
OF THE ISSUING BANK)**

Ref.

Bank Guarantee No.

Date:

Company Name, Contact and Address

Dear Sir,

We refer to the Tender No. : Dated:
for the supply of
.....

By this Bank Guarantee, we, the undersigned,a Bank (or
Company) organized under the laws of and having its Branch office at
..... and registered / principal office at
..... do hereby irrevocably guarantee payment to you an
amount of Rs. Until dated:
.....

We undertake to make payment under this Bank Guarantee upon receipt by us of your first written demand signed by your duly authorized officer declaring the Bidder to be in default and without cavil or argument any sum or sums within the above named limits, without you need to prove or show grounds or reasons for your demand and without the right of the bidder to dispute or question such demand.

Our liability under this Bank Guarantee shall be to pay you the sum so requested or the amount then guaranteed hereunder whichever is less in respect of any demand duly made hereunder prior to expiry of the Bank Guarantee, without being entitled to inquire whether or not this payment is lawfully demanded.

The above Guarantee is issued subject to the condition that the Bank's liability is restricted to the amount mentioned above and in the said Guarantee. Our Guarantee shall remain in force till the

expiry date. Unless a demand or claim under the guarantee is made on the Bank in writing and delivered to the bank on or before the Expiry date/Claim Expiry Date, the Bank shall be discharged from all liability under the said guarantee thereafter.

Except for the documents herein specified, no other documents or other action shall be required, notwithstanding any applicable law or regulation.

All notices to be given under shall be given by registered (airmail) posts to the addressee at the address herein set out or as otherwise advised by and between the parties hereto.

No action, event or condition which by any applicable law should operate to discharge us from liability hereunder shall have any effect and we hereby waive any right we may have to apply such law so that in all respects our liability hereunder shall be irrevocable and, except as stated herein, unconditional in all respects.

Yours truly,

Name of the Bank

.....

Authorized Signature

Signature of Witness.

Signature of Witness.

Name.....

Address.....

Note:

1. The non-judicial stamp papers of appropriate value shall be purchased in the name of the Bank who issues the Bank Guarantee.
EMD is to be provided by the bidder in the form of a Bank Guarantee which should be issued by a Public Sector Bank.

LIST OF DOCUMENTS TO BE UPLOADED WITH FEE DETAILS

1. Scanned copy of printout of EMD submission or exemption certificate or bank guarantee for the same.

**LIST OF DOCUMENTS TO BE UPLOADED WITH PRE-QUALIFICATION
CRITERIA**

1. Scanned copy of tender acceptance letter. (Annexure-II)
2. Scanned copies of duly filled Annexure-III and all the documents referred therein
3. Scanned copies of duly filled Annexure-IV and all the documents referred therein.
4. Scanned copies of duly filled Annexure-V and all the documents referred therein.
5. Scanned copies of duly filled Annexure-VI and all the documents referred therein.

LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

1. Scanned copy of bank details for NEFT/ RTGS on letter head.
2. Scanned copy of self-declaration of original manufacturer or authorized dealership certificate from OEM.
3. Scanned copy of certificate of GST.
4. Scanned copy of detailed technical specification & brochure (if any) of all hardware and software items included in the bid along with all certifications mentioned in Annexure-I.
5. Scanned copy of site visit certificate
6. Surveillance System Architecture
7. Un-priced BoQ in the format as provided in Annexure-XVIII, without filling any value in Columns for rate, GST and amount.

(Please note that no indication of the rates/ amount be made in any of the documents submitted with the technical bid. The bid will be summarily rejected, if any component of rate/ amount is mentioned in technical bid.)

INSTRUCTION RELATED TO PRICE BID

PRICE BID –

A. Schedule of price bid in the form of BOQ format:

1. The Financial Proposal / Commercial bid format as referred in Annexure-XVII is provided as BOQ along with this tender documents at <https://eprocure.gov.in/eprocure/app>
2. **Bidders are advised to download this BOQ.xls** as it is, and quote their offer / rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper / modify the downloaded price bid template in any manner. In case if the same is found to be tampered/ modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. Any element of cost, taxes, duties levies etc. not specifically indicated in the BOQ, shall not be paid by the purchaser. **If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST. No further communication will be entertained later or else the EMD will be forfeited.**
5. The tender shall remain valid for acceptance for **180 days**, from the date of tender opening.

B. Break-up of price in PDF format:

The break-up of price for each item should be given in PDF format (Signed Scanned Copy) with details of components with individual prices and optional accessories, if any. The format for same is provided in Annexure-XVIII.

Reference to BoQ

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: Registrar, IIT Patna

Name of Work: Supply, Installation, Commissioning & Maintenance of CCTV Surveillance System as turn key project in the IIT Patna Campus

Contract No: IITP/S&P/EPR/1/SS-1/2019-20

Name of the Bidder/ Bidding Firm/ Company :						
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	CCTV Surveillance System	1.0	Set		0.00	INR Zero Only
2	Maintenance and Operation	1.0	5 Years		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				

Format for Breakup of Price/Bill of Quantity

Sl. No.	Name of Item	Make	Model	Unit	Quantity	Rate	HSN & SAC Code	Amount
01	Bullet/Box Camera			Each	137			
02	Indoor/Outdoor Dome Camera			Each	49			
03	PTZ Camera			Each	05			
04	ANPR Network Camera			Each	05			
05	Video Management Software for Cameras			Each	196			
06	Centralized software for ANPR							
07	Central Core Management Server							
08	Media Server & Data Centre							
09	Workstation			Each				
10	Video Wall Solution 2x2 Matrix			Each				
11	55" Full HD LED Display			Each	01			
12	43" Full HD LED Display			Each	02			
13	Core Layer 3 Switch			Each				
14	Core Layer-2 Switch			Each				
15	Core Layer-2 Switch (Industrial Grade)			Each				
16	1 Gigabit switch			Each				
17	5 KVA online UPS			Each				
18	2 KVA online UPS			Each				
19	24 Port Jack Panel			Each				
20	6 U Networking Racks			Each				

Sl. No.	Name of Item	Make	Model	Unit	Quantity	Rate	HSN & SAC Code	Amount
21	4U Networking Rack			Each				
22	9U Networking Rack			Each				
23	42U Networking Rack			Each				
24	Industrial Media Converter			Each				
25	Power Cat6 Cable			Mtr				
26	6 Core outdoor armored Cable			Mtr				
27	24 port enclosure			Each				
28	6 Port Fully Loaded LIU			Each				
29	18 feet Poles with base plate to fix camera			Each				
30	PVC ISI Conduit Pipe			Mtr				
31	GI Conduit			Mtr				
32	Essential item 1							
33	Essential item 2							
34	Essential item 3							
35	Essential item 4							
36	Essential item 5							
37	Essential item 6							
38	Essential item 7							
39	Essential item 8							
40	Essential item 9							
41	Essential item 10							
42	Essential item 11							
43	Essential item 12							
44	Essential item 13							
45	Essential item 14							
46	Essential item 15							

Sl. No.	Name of Item	Make	Model	Unit	Quantity	Rate	HSN & SAC Code	Amount
47	Essential item 16							
48	Essential item 17							
49	Essential item 18							
50	Essential item 19							
51	Essential item 20							
52	Warranty and Maintenance Charges (Year 1)							
53	Warranty and Maintenance Charges (Year 2)							
54	Warranty and Maintenance Charges (Year 3)							
55	Warranty and Maintenance Charges (Year 4)							
56	Warranty and Maintenance Charges (Year 5)							
Total basic amount for surveillance system (As in cell no. BA15 of BOQ)		Please fill in words and digits						
Total GST amount		Please fill in words and digits						
Grand total amount		Please fill in words and digits						
57	Optional item 1							
58	Optional item 2							
59	Optional item3							
60	Optional item4							
61	Optional item5							
62	Optional item6							
63	Optional item 7							

Sl. No.	Name of Item	Make	Model	Unit	Quantity	Rate	HSN & SAC Code	Amount
64	Optional item 8							
65	Optional item 9							
66	Optional item 10							
67	Optional item 11							
68	Optional item 12							
69	Optional item 13							
70	Optional item 14							
71	Optional item 15							
72	Optional item 16							
73	Optional item 17							
74	Charges for Comprehensive AMC of the Surveillance system after 5 years ***							
75	Charges for Non-Comprehensive AMC of the Surveillance system after 5 years ***							

*** Minimum number required for the quoted turnkey solution must be mentioned with the rate per unit in financial bid.

*** Quoted price will not be included in comprehensive statement for determining the L-1.

Draft of Service Level Agreement**Service Level Agreement (SLA) Criteria**

Sl. No.	Service Matrices Parameters	Matrices	Deduction
01	Resolution time for raised complaint/issues	Resolution of complaints/ issues within 1 day (24hours)	No penalty
02	Resolution time for raised complaint/issues	Resolution of complaints/ issues after 1 day (24 hrs)	For non-functioning of camera of any component:- First 24 Hrs, no penalty thereafter, Rs. 500/- per day per non-functional camera or per particular component with a maximum ceiling of Rs. 10,000/- per day.
			For non-functioning of overall CCTV surveillance system:- First 24 Hrs, no penalty, thereafter Rs. 10,000/- per day.

#

Complaint Registration / Redress System

- The successful Bidder should provide an incident management system with i) Customer support number, ii) Email helpdesk and iii) online incident management facility, to log the complaint into a web based software solution for call tracking/redressal/call status etc.
- The successful bidder shall setup the incident management system within 3 months from the date of contract along with user manual for raising, maintaining and monitoring complaints lodged by users.
- The call logging facility should be available from 10:00 hours to 18:00 hours, all seven days a week, except GoI declared holidays. In this regard the supplier should provide complaint ID nos. as well as redress messages to the user through E-mail.
- The successful bidder will maintain the sufficient inventory of spare items as per operational requirement so as to provide the required service as mentioned in the tender document.
- In case of Faulty component /devices are replaced with new one before taking the old one back, as far as possible to avoid delay.
- Update the status of the calls in the call logging system within the same day.
- The other features of the Complaint Registration / Redressal System will be discussed mutually.

The call logging software so developed by the successful bidder is to meet the service requirement during the contract period. Institute will not be responsible for providing any service support and maintenance of above software

Annual calendar for the planned preventive maintenance scheme of CCTV Surveillance system installed in the IIT Patna.

1. Annual calendar for maintenance of CCTV/ Surveillance system will be made according to the following table. For each device of the system, the details of (fortnightly / monthly / quarterly / half yearly) preventive maintenance activities will be mentioned.

2.

Type of device be Examined	Fortnightly	Monthly	Quarterly	Half yearly	Any other
Equipments of CCTV system					
PTZ Camera					
Fixed camera					
LCD Television					
Server					
Storage server					
Backup server					
Backup storage server					
Application Software					
Video management software					
Network switch					
R.F.equipment of CCTV system					
Network cable					
Camera field box					
Server rack					
Any other equipments of CCTV System					
Technical Examination of equipment:					

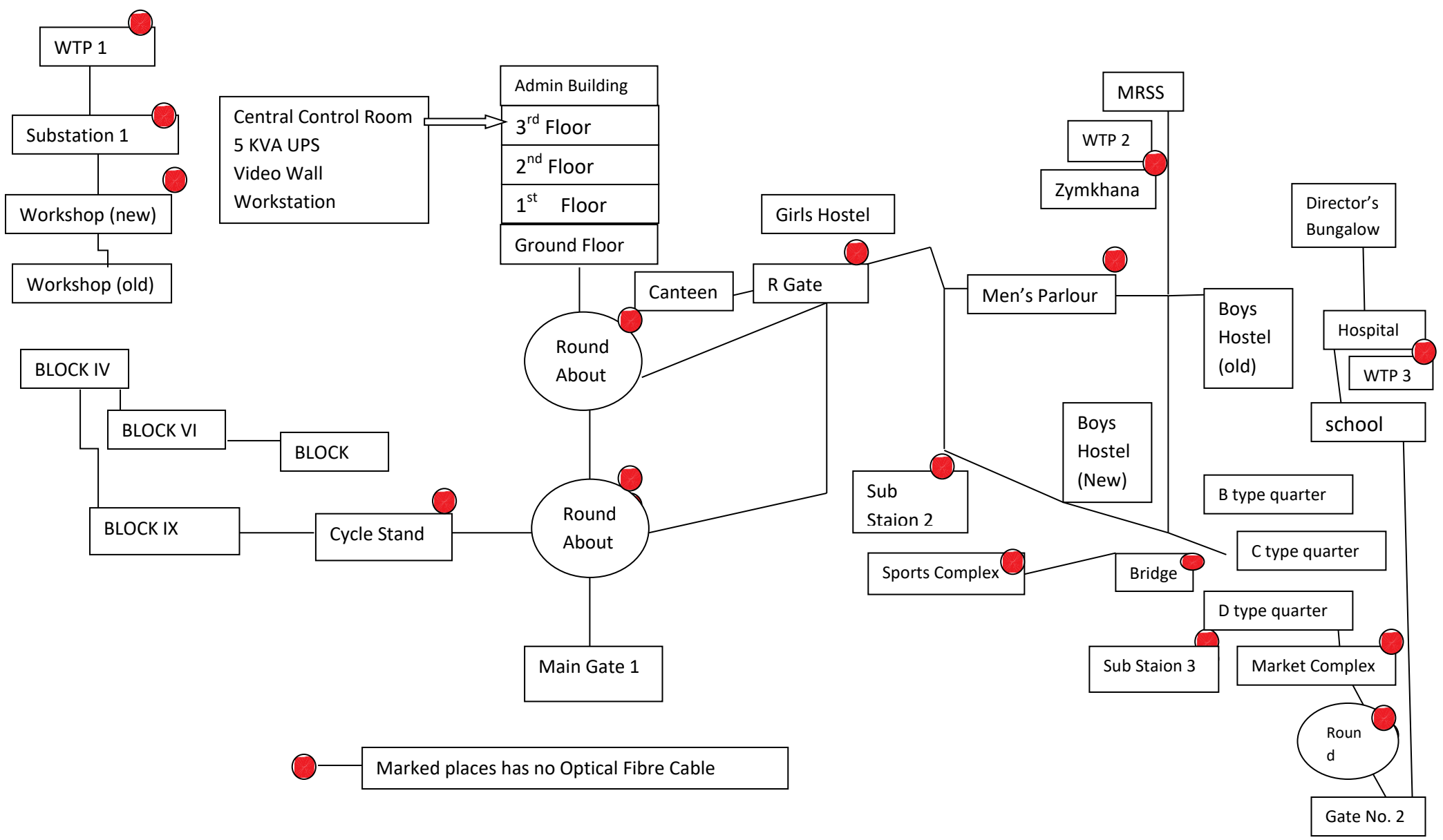
Bidder is required to submit detailed Preventive Maintenance Plan of CCTV system and other equipments to be submitted fortnightly / monthly / quarterly / half year for 'preventive maintenance and various investigation to be done under them during the AMC period. For any device of CCTV surveillance system, if any of the fortnightly / monthly / quarterly / half yearly examination is not required then the applicant must write in proposal "not required" with the test type.

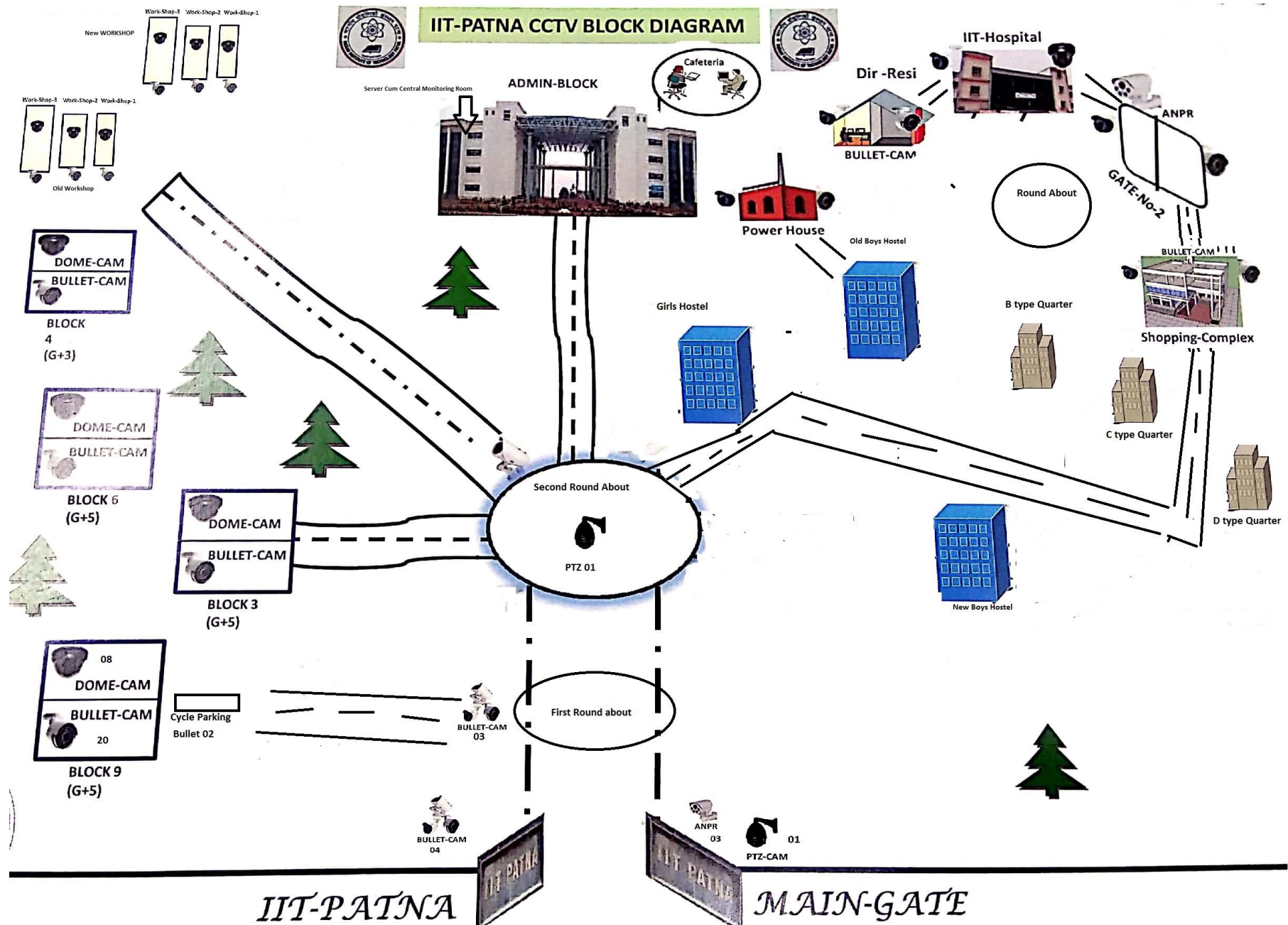
Details of documents to be submitted in original

1. Proof of EMD Submission/ Bank Guarantee for EMD/ Exemption Certificate
2. Pre-Contract Integrity Pact

CCTV Camera Location with OFC Requirement

Annexure-XXI





Checklist

CHECKLIST FOR PREPARATION OF BID

Sl. No.	Particulars	Yes/No
1	Have you filled in and signed the Contact Details Form?	
2	Have you read and understood various conditions of the Contract and shall abide by them	
FEE DETAILS		
3	Scanned copy of printout of EMD of Rs.5,00,000/- submission or exemption certificate or bank guarantee for the same.	
PRE QUALIFICATION CRITERIA		
4	Scanned copy of tender acceptance letter. (Annexure-II)	
5	Scanned copies of duly filled Annexure-III and all the documents referred therein.	
6	Scanned copies of duly filled Annexure-IV and all the documents referred therein.	
7	Scanned copies of duly filled Annexure-V and all the documents referred therein.	
8	Scanned copies of duly filled Annexure-VI and all the documents referred therein.	
TECHNICAL BID		
9	Scanned copy of bank details for NEFT/ RTGS on letter head.	
10	Scanned copy of self-declaration of original manufacturer or authorized dealership certificate from OEM.	
11	Scanned copy of certificate of GST.	
12	Scanned copy of detailed technical specification & brochure (if any) of all hardware and software items included in the bid along with all certifications mentioned in Annexure-I.	
13	Scanned copy of site visit certificate	
14	Surveillance System Architecture	
15	Un-priced BoQ in the format as provided in Annexure-XVIII, without filling any value in Columns for rate, GST and amount.	
FINANCIAL BID		
16	Have your financial Bid (BOQ) proposal is duly filled as per Price Schedule and uploaded?	
17	Have you quoted prices against each of the category as per the price schedule?	
18	Have your financial bid been packed as per Tender?	