

INVITATION FOR EXPRESSION OF INTEREST (EOI)

IP BASED CCTV SURVEILLANCE SYSTEM REQUIREMENT IN IIT KHARAGPUR

Pre EOI Submission Meeting :	At 4:00 PM on 29 th July 2019 at Committee Room, Main Building , IIT Kharagpur
Submission of EOI proposal :	Till 12:00 pm on 13 th August 2019
Opening of EOI Proposal :	At 12:30 pm, on 13 th August 2019
Presentation :	At 3:00 pm on 13 th August 2019
Validity of EOI proposal :	120 days from the date of Opening of EOI Proposal



**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR – 721302**



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
Indian Institute of Technology
Kharagpur

No. IIT/EOI/CCTV/2019-20

Dated : 19 July 2019

Sub: Expression of Interest (EOI) for IP based CCTV Surveillance requirement in IIT Kharagpur

Sealed Expression of Interest (EOI) are invited by the Indian Institute of Technology (IIT) Kharagpur from leading, reputed, professionally & financially sound and duly registered companies /agencies /organizations with proven track record and having capabilities in design, supply, installation, commissioning and maintenance of IP based CCTV surveillance system as a turnkey project in IIT Kharagpur campus, West Bengal.

The EOI document can be downloaded from the Institute website (www.iitkgp.ac.in; Link Tenders) and the same is also available on CPP portal (<https://eprocure.gov.in>). The EOI submission fee is Rs. 5000/- (non-refundable) and the same must be submitted in the form of Demand Draft in favour of "Indian Institute of Technology Kharagpur" payable at Kharagpur. The estimated cost of the whole project is Rs. 5 Crores approximately for 400 cameras. Any corrigendum and addendum shall only be published on the Institute website and CPP Portal.

Interested firms are requested to send their sealed EOI as per Annexure-I under a sealed envelope superscripted with "Expression of Interest (EOI) for IP Based CCTV Surveillance System Requirement in IIT Kharagpur" by post or handed over to the Office of the Deputy Registrar (S&P), IIT Kharagpur on or before 13th August 2019 by 12:00 PM.

IIT Kharagpur will hold the Pre-EOI submission meeting with all interested firms for technical discussion. This meeting will be held in the Committee Room, Main Building IIT Kharagpur on 29th July 2019 at 4:00 PM.

The EOI proposal will be opened on 13th August 2019 at 12:30 PM in the Committee Room of the main administrative building, IIT Kharagpur in the presence of authorized representative of the firms.

The institute will examine the credentials of the firms, based on the submitted documents as per the eligibility criteria.

After evaluation of the eligibility criteria, as part of short listing exercise, vendors will be required to make a focused presentation on the company, expertise, experience in the relevant field, products with the proposed solution etc. for not exceeding 15 minutes to the Technical Committee of IIT Kharagpur.

Based on the proposed acceptable solution, RFP/Tender will be issued to the eligible and qualified vendors based on the EOI, on basis of which the vendors are supposed to submit their two part (Part A: Technical and Part B: Commercial) offers as per the Institute rules.

The Institute reserves the right to issue the Request for Proposal (RFP)/ Tender only to those vendors who are eligible and qualified based on the evaluation of the EOI submitted by the bidders, vendor presentations, etc. The decision of the Institute in this regard shall be final.

The Director, Indian Institute of Technology, Kharagpur reserves the right to reject any or all the offers without assigning any reason. The Institute also reserves the right to amend the scope of the work at any point of time. Any attempt on the part of any firms to influence, negotiate directly or indirectly with the Institute will lead to exclusion from consideration.

Please note that it is not a Request for Proposal (RFP) and commercials are not to be submitted with the EOI.

Sd/-
Registrar
for Director,
IIT Kharagpur

Copy to:

1. Institute website
2. CPP Portal

1. Introduction

The proposed CCTV network is intended to improve the surveillance of the public places, Halls of Residences, Departments/Centres/Sections with the state-of-the-art IP based CCTV surveillance facility of monitoring at the level of Departments, Hall Management Centre, Security Section besides a Central Command and Control location.

The surveillance network will be augmented in phases with the addition of new places of interest under surveillance. Currently there are about 200 Nos. of Full HD IP Based CCTV cameras installed in different areas of the campus and these are to be integrated with the new proposed CCTV surveillance system.

The proposed system shall be based on non-proprietary open standard based integrated solution with network centric functional and management architecture. The total number of camera required shall be approx. 400 considering additional requirement of BCRTM, CRF, Water treatment plant, periphery boundary & misc as suggested by IB.

The bidders shortlisted through the EOI will assist in setting up an integrated security surveillance system which would involve the design, supply, installation, testing, commissioning and 24/7 operations/maintenance for at least 5-years of an effective and state-of-art IP-based integrated CCTV security and surveillance system in the campus.

2. Minimum eligibility criteria for participation in the EOI

- (a) Bidder shall have a minimum 5 (five) years of experience in supplying, commissioning and maintenance of **IP Based CCTV Surveillance System** in a government organization (at State/National level) as on tender submission deadline. Name, address/contact details of the present and past satisfactory clients to be provided as per the format in Annexure -II.
- (b) Experience of having successfully installed and commissioned of similar works at any IIT/NIT/Universities/IIM/IISER/IISc or any Institute of National Importance or State/Central Police organizations in India during the last 07 (seven) years as of tender submission deadline, as per the following details:
 - a. Three similar completed works costing not less than the amount equal to 40% of estimated cost; **OR**
 - b. Two similar completed works costing not less than the amount equal to 60% of the estimated cost; **OR**
 - c. One similar completed work of aggregated cost not less than the amount equal to 80% of the estimated cost;

*Similar work means supply installing commissioning of IP based CCTV surveillance system

- (c) The bidder must have a minimum annual average turnover of Rs. 50 Lakhs during the three financial years 2016-17, 2017-18 and 2018-19. All bidders should submit copies of audited P&L Statement of Accounts for the last three years ending 31 March 2019 along with the EOI. Should not have made losses in 2 out of 3 yrs.
- (d) Solvency certificate minimum of Rs. 120 Lakh(1.2 Cr) in a prescribe format (Annexure -III) is required from any nationalized/scheduled bank not older than 6 months from last date of submission.
- (e) Proof of Registration of the bidder under relevant law, such as Companies Act, and / or Shops & Establishment Act or Trade License from appropriate authority etc.
- (f) All bidders should submit along with their EOI, copies of PAN Card, GST registration certificates.
- (g) A certificate (Affidavit) to be signed by MD / CEO of the company that they haven't been debarred or blacklisted for any services, supplies or products dealing in, by any organizations or educational Institute/ University or state/ central government.
- (h) The bidder must submit copies of acknowledgement of Income Tax return for the last three financial years 2016-17, 2017-18 and 2018-19.
- (i) The bidder and manufacturer of proposed products should not have been debarred or blacklisted by any State or Central Govt organization/PSU in India while executing similar nature of work.
- (j) Bidder must be a manufacturer/authorized system integrator of the manufacturer of major equipment mentioned in the scope of work.
- (k) Manufacturers of major equipment proposed by bidder must have registered office and service centre in West Bengal with Trade License & GST registration.
- (l) All products proposed by bidder must be of high quality and of reputed make and having certification such as UL, EN, CE, RoHS, FCC, Gartner Quadrant listing etc. All camera products should be BIS certified products.
- (m) Filled in declaration as per the Annexure -IV

Bidders must submit the documentary proof in support of meeting the minimum eligibility criteria. Simply an undertaking by the Bidder for any item of the criteria shall not suffice the purpose. All the documentary proof must be listed on the letter head, to be submitted with the EOI proposal.

3. EOI submission Fee

Rs. 5,000/- (non-refundable) and same must be submitted in the form of Demand Draft drawn in favour of “Indian Institute of Technology Kharagpur” payable at Kharagpur.

Note:-

1. If the day falls on any Holiday, the date of any of the events mentioned above shall be on the next working day.
2. It is the responsibility of the Bidder to ensure that their bids whether sent by post or by courier or dropped by person should reach within the stipulated date & time.
3. The quotation received after the last date and prescribed time would summarily be rejected. Quotations having incomplete information are also liable to be rejected.
4. The Director, IIT Kharagpur reserves the right to reject any or all the quotations in full or part without assigning any reason thereof and without giving any compensation. The decision of the Director in this regard shall be final and binding to all.
5. The addendum/ corrigendum if any shall only be published on Institute’s website and CPP Portal.

4. Functional Requirement of the Project

The suggested system should have the following salient features:

- (a) Day & Night online surveillance of the identified critical locations/busy public places on a 24x7x365 days basis.
- (b) The cameras should consist of a combination of fixed, PTZ and ANPR Cameras with Full HD or better quality in Day & Night Vision with good low light performance.
- (c) The monitoring of cameras should be on real time basis in a central control room with possibility of localized monitoring at various department/building levels.
- (d) Option of redundant recording available at camera level, in case of power failure.
- (e) The recorded video from all the cameras should be available in the storage for a period of 60 days @ 720p25 or higher resolution and option of storing the videos up to 90 days.
- (f) Storage facility of recording should support back-up storage and archiving if required at the Central Monitoring Room.
- (g) Video management system to ensure effective surveillance of the area as well as to create tamper proof video recording for post event analysis. It should be possible to export the video for evidence, playback and search recorded files, multi-level authorization and monitoring controls, licensed application for a professional control room setup.
- (h) Active Layer 2/Layer 3 network and passive network should be planned separately for IP CCTV system on optical fiber backbone.
- (i) Robust power infrastructure and power back up should be planned for all cameras and control room equipment.
- (j) The recorded data should have redundancy built in for storage against failure of critical components.
- (k) The existing IP based HD CCTV surveillance systems in the Institute/IIT Kharagpur campus comprising about 300 cameras installed within the last 3 years at different places like different entry/exit gates and halls of

residences, departments, Sections, Guest Houses etc., are to be included as part of the integrated solution for maintenance.

- (l) The system should be scalable and possibility to add 3rd party IP cameras, monitoring stations, storage systems or other devices at a later stage.
- (m) Protection of outdoor cameras from harsh environmental conditions like heat, dust, and heavy shower.
- (n) Operation and maintenance manpower should be planned for a period of 5 years.
- (o) On-site warranty and Post-Warranty Maintenance and spare parts support of all hardware, software and accessories. On-site service personnel shall be available during the warranty & post warranty. This includes the existing CCTV surveillance systems of the Institute.

5. Scope of Work for the EOI

Scope of work includes survey, design, site preparation, supply, installation, testing, training, along with operations and maintenance of physical and IT Infrastructure for CCTV based Surveillance System across multiple sites spread across the campus as per the following:

- (1) Detailed Site Survey of the desired areas of surveillance.
- (2) Preparation and submission of Site Survey Reports.
- (3) Preparation and submission of detailed solution document and network architecture including but not limited to the following components:
 - (a) PoE based IP CCTV Cameras having at least 2 MP or higher resolution and vandal resistant IP 65/IP 66 environmental protection. The cameras can be fixed (bullet/box/dome type), PTZ or Automatic Number Plate Recording (ANPR) type depending on the site requirement in different locations of the Institute as listed in the next section. The range of operation and operating condition will depend on the site conditions to provide a clear image of Full HD quality even in very low ambient light condition.
 - (b) Dedicated CCTV Network is to be planned in the campus. This has to be realized using active network (other than IIT LAN) with necessary Layer 2/Layer 3 switches and passive network with UTP CAT6 cables on the optical fiber backbone.
 - (c) Identifying the correct camera location, mounting arrangement, networking and power supply arrangement from the nearest designated ports at each location along with appropriate camera types as may be suitable for the site requirement.
 - (d) Provision of monitoring the cameras signals in the central control room as well as localized monitoring at various department/ building levels. The monitoring location of each group of cameras will be provided by the Institute.
 - (e) Video Management software for 24x7 monitoring and surveillance.
 - (f) The video management system shall have the capability to connect unlimited number of cameras, recording servers and clients to be connected to management server across multiple sites.
 - (g) The video management system shall include a distributed architecture allowing clients on the host system with the user rights to view video sources belonging to multiple independent video management systems simultaneously and also support generation of audit trails.
 - (h) Control room setup for a cluster of cameras with recording and monitoring in a distributed architecture for the total surveillance system.

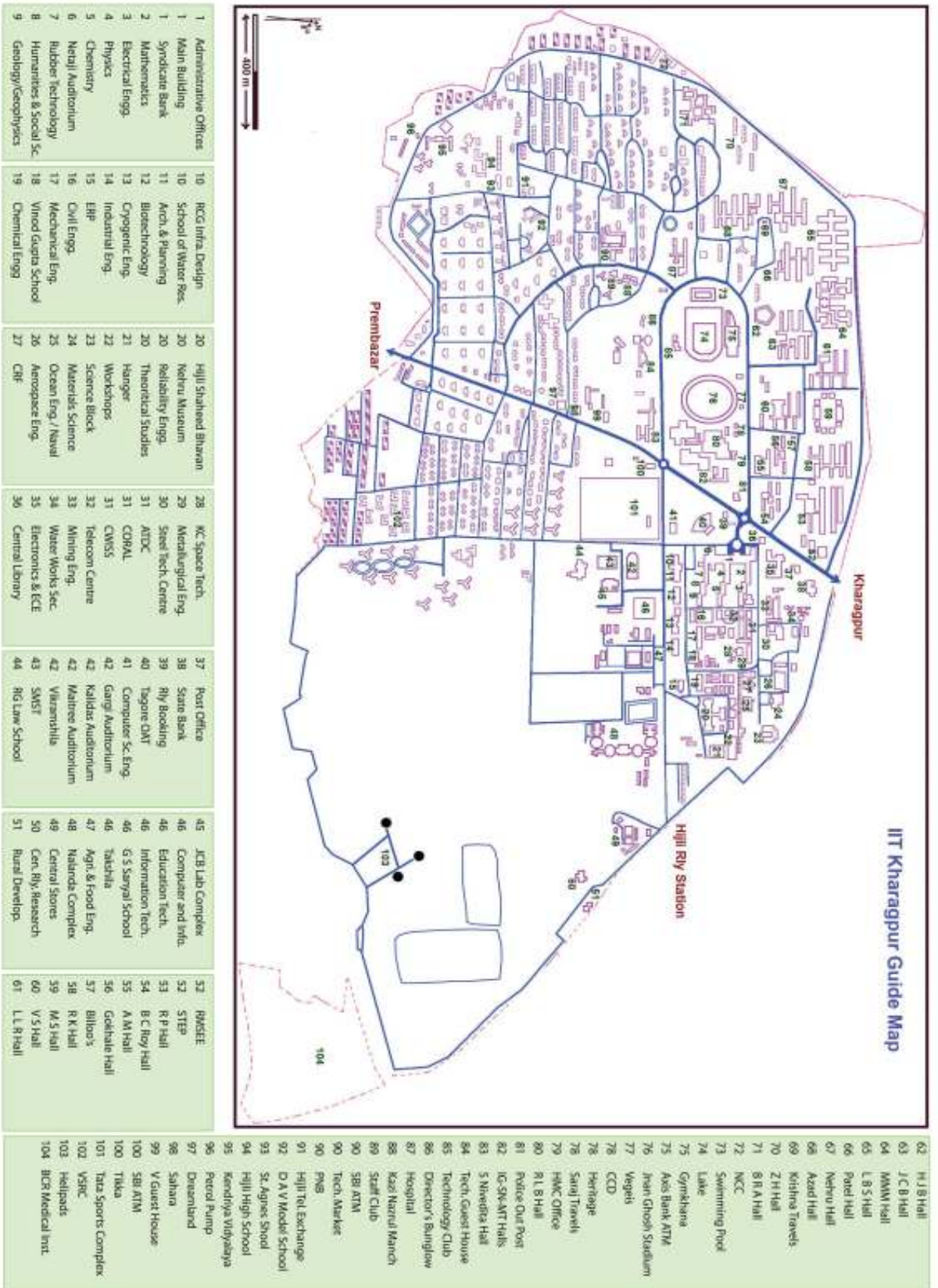
- (i) Recording the videos of all the cameras on 24x7 basis @720p or better for 60 days with option to increase the storage duration to 90 days.
 - (j) For storage of the videos, the solution should include the servers/storage with the help of Network Video Recorder (NVR) or Network Attached Storage (NAS)/ Encoders/Decoders/ Client work stations etc. to make a complete functional open IP based CCTV system.
 - (k) Storage system will have distributed architecture with localized storage of videos at different monitoring centres along with the optional total storage facility at Centralized Control and Monitoring Centre.
 - (l) Storage of video signals with adequate redundancy against the failure of critical components.
 - (m) Power Infrastructure with backup for solution proposed.
 - (n) Additional protection of outdoor cameras from harsh environmental conditions like continued heat, dust, and heavy shower.
 - (o) Surge Protection as well as lightning devices for cameras, racks, switches etc.
- (4) Preparation and submission of bill of materials. All items/products/solutions required for a turnkey project should be suggested and included in the bill of materials to be submitted with the EOI. An unpriced bill of material may be enclosed.
- (5) Submission of Technical specifications of all equipment and the solution proposed.
- (6) Providing trained technical manpower for training, operation and management of the entire system including the existing CCTV systems of the Institute for a period of 5 years.

6. Locations to be covered for surveillance

Presently, the following areas of IIT Kharagpur campus are to be covered under the IP CCTV surveillance system with the tentative number of cameras at each location as is given below:

Sl. No.	Areas to be brought under surveillance	Estimated number of cameras	Monitoring and Recording
1.	Halls of Residences	400 No's	HMC Office
2.	External & Internal Entry Exit Gates and important public places		Office of the Security Officer
3.	Departments/Centres		Respective Dept./Centres
4.	Guest Houses		Respective Guest Houses
5.	All external entry/exit gates (for automatic number plate detection)		Office of the Security Officer
6.	Dr. B.C. Roy Technology Hospital		Office of the PMO
7.	Periphery surrounding the campus boundary		Office of the Security Officer

The detailed information about the nature/areas of surveillance coverage required at each place will be provided to the interested bidders.



Annexure -II

DETAILS OF EXISTING CONTRACTS

Sl. No.	Name and address of the organizations/ Institutes Name, designation and contact phone/fax numbers of the Officer concerned	Details regarding the contract, including manpower deployed	Value of contract (in INR)	Duration of contract		Additional information/ remarks, if any
				From dd/mm/yy	To dd/mm/yy	

Signature of the Authorized Person

Date: -----

Full Name: -----

Plac : -----

Company Seal: -----

Note: The above details be duly signed and sealed by the authorized signatory of the firm/company, and be enclosed with the EOI document.

SOLVENCY CERTIFICATE
[Format for Solvency Certificate]

To
The Registrar,
Indian Institute of Technology Kharagpur,
Kharagpur 721302,
West Bengal

Solvency Certificate

This is to certify that to the best of our knowledge and information, M/s..... (address) a customer of our bank is respectable and be treated as good for an engagement up to a sum of Rs..... (Solvency amount) only as on..... (Date of Certificate).

This Certificate has been issued without any risk and responsibility on the part of the Bank or any of its officers. This certificate is issued at the specific request of the customer.

Yours faithfully,

For..... Bank
Bank Officer with designation

DECLARATION

1. I, ----- Son /Daughter of Shri -----
----- Proprietor/ Partner/ Director/Authorized
Signatory of M/s. ----- am competent to
sign this declaration and execute this EOI document.
2. I have carefully read and understood all the terms and conditions of the
tender and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are
true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/
fabricated document would lead to rejection of my tender at any stage
besides liabilities towards prosecution under appropriate law.

Signature of the Authorized Person

Date: -----

Full Name: -----

Place: -----

Company Seal: -----

Note: The above declaration, duly signed and sealed by the authorized signatory of the firm/company, should be enclosed with the EOI document.