



Engineering Cell
DELHI TECHNOLOGICAL UNIVERSITY
Shahbad Daulatpur, Main Bawana Road, Delhi-42

Notice for Expression of Interest

Sub: Invitation for Expression of Interest (EOI) Supply & Installation of IP based CCTV Cameras and its accessories for Security Surveillance System at Administrative Block, Academics Blocks, Hostels, Residential Area, Canteen, Health Centre, Parking & Other areas of Delhi Technological University (DTU).

Delhi Technological University invites sealed Expression of Interest (EOI) from the experienced supplier/ contractors/ resourceful firms / organization that have proven capabilities in both Technical and Financial for Supply & Installation of IP based CCTV Cameras and its accessories for Security Surveillance System at Academics Blocks, Hostels, Residential Area, Canteen, Health Centre, Parking & Other areas of Delhi Technological University (DTU).

The EOI documents can be downloaded from the official website of DTU www.dtu.ac.in

The Expression of Interest (EOI) and accompanying documents shall be submitted by post or to be delivered in the Office of **Executive Engineer, Delhi Technological University, Shahbad Daulatpur, Bawana Road, Delhi-110042** in a sealed cover properly superscribed as "**Expression of Interest for Academics Blocks, Hostels, Residential Area, Canteen, Health Centre, Parking & other areas of Delhi Technological University (DTU)** ", so as to reach us on or before **31.10.2017 upto 4 P.M.** and addressed to the "**Executive Engineer, Delhi Technological University, Shahbad Daulatpur, Bawana Road, Delhi-110042**".

Executive Engineer
Delhi Technological University
Shahbad Daulatpur, Bawana Road
Delhi-110042



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EXPRESSION OF INTEREST

FOR SUPPLY & INSTALLATION OF IP BASED CCTV CAMERAS AND ITS ACCESSORIES (SECURITY SURVEILLANCE SYSTEM) AT ACADEMICS BLOCKS, HOSTELS, RESIDENTIAL AREA, CANTEEN HEALTH CENTRE, PARKING & OTHER AREAS OF DELHI TECHNOLOGICAL UNIVERSITY (DTU).

1. DTU invites “**Expression of Interest**” from reputed and expert Companies having experience in supply and installation of IP Based CCTV Cameras and its accessories (Security Surveillance System) for monitoring of crowded locations vulnerable to crime/theft at DTU Campus. It is reiterated that only such companies having successfully provided comprehensive IP Based CCTV Cameras and its Accessories (Security Surveillance System) in major organization of Central Government / State Government / Central Autonomous bodies / State Autonomous bodies / Central Public Undertaking / State Public Undertaking/Educational Institute will be considered for pre-qualification.

2. Scope of work

Delhi Technological University is a non-affiliating teaching-cum-research University engaged in fostering excellence in education, research and innovations in engineering and technology, applied sciences and management. It is located at Shahbad Daulatpur, Bawana Road, Delhi-110042 and spread over an area of 164 acres. In view of increasing students as well the commuters visiting various departments, Hostel/Residential Campus heightened security threat and crime prevention & detection needs, DTU intends to upgrade the security of various places through the CCTV surveillance systems. Various important places in the DTU will be covered by IP based - CCTV surveillance system with state of the art facility of monitoring the video relay at the level of Departments, Hostels Incharge besides a central location. The suggested system should have the following salient features.

a) Day & Night online surveillance of crowded locations/busy public places on a 24x7x365 days basis. Connectivity and monitoring from all the sites of installation should be available at DTU, Security Monitoring Control Room and with the Security Officer, DTU.

b) DTU is having numbers of Buildings located at different places in vicinity, there is day classes from 8 A.M. to 9 P.M. These units also needs to be monitored through the IP Cameras and control of these zones would be with respective unit In-charges, and online connectivity should be made with DTU Central Control System. Zones are subject to change and can be finalized after complete survey by the Companies/ Firms bidding for EOI.

c) The facility of recording at each of the installation should be for a minimum period of 24x7 days and redundant recording available at camera level, in case of power failure. The recording facility available at the central level in respect of all the location should be for a minimum period of 30 days for a Security Control Room; 14 days for Hostels & Departments and 3 days for individual location whereas the recording facility available.

d) Storage facility of recording in the form of back-up storage should be available in Security Monitoring Room.

e) The monitoring should consist of a combination of PTZ (Pan Tilt Zoom) & Fixed Cameras (Day & Night Vision) and a suitable connectivity and mechanism shall be suggested by the bidders in their documents in the Expression of Interest.

Project implementation

The Project will be implemented covering all the major locations and other important public places.

Objectives of the Project

1. Live monitoring of activities in the various locations and other vulnerable places, from the point of view of crime prevention & detection, theft etc. to check the activities of mischievous elements and overall security of the DTU premises area from violence angle as well as check alertness of Guards/Personnel on duty and their locations.
2. If an event at any location necessitates, reinforcements, alert the remaining locations/areas.
3. To record the movements of vehicles and public at specific locations for future planning/actions.
4. Immediate incident detection and effective management of DTU response.
5. Identification of disaster/emergencies and response thereon.

Functional Requirement (Solution)

1. As described in the requirement, the solution should be scalable.
2. The solution must offer a central location to record and view all the cameras.
3. The solution must also give an option to view small group of cameras, important to individual department, to individually view it without disturbing the main recording or setup.
4. The solution should give option to record the video on different frame rates for individual camera at central location.
5. The recording or live view of the cameras should be available to authorize personal only.
6. Future possibility of coverage/adding additional locations/cameras, if required.
7. The recording resolution and frame rate for each camera shall be user programmable.
8. All the cameras should be provided with suitable surge suppressor against lightning in power, signal & video lines.
9. All the cameras and equipment meant for outdoor installations shall be suitable to work from 0°C to 50°C with relative humidity up to 95% non-condensing.
10. All the field cameras should have tilt & zoom facilities.

11. All camera recording shall have camera IDs & location of recording as well as date/time stamps and recording of real-time mode.

12. In order to optimize memory while recording, video shall be compressed using MPEG4 or better standard over the IP network. Once on the network, video can be viewed on a control room work station or on a monitor using a hardware decoder.

13. The system shall be triplex, i.e. it should provide facility of viewing, recording and replay simultaneously.

14. The bidder should propose most suitable, economical integrated system solutions and development of an effective network to provide 100% uptime for the entire links in a manner that operational data should not be lost in case of failure of equipment or communication network and provision of suitable disaster recovery mechanism.

15. **The functional requirement is only indicative; the system vendor shall quote latest system available at the time of submitting EOI.**

a) Following are the designated places, DTU wishes to install CCTV Facility.

S. No	Name of the place	Accessibility Controlling place
1	All the gates, Administrative Block, Academic Area , Hostels Area, Residential Area, Sports Area, Canteen & Cafeteria, Health Centre, Guest House & Parking Area	Security Office
2	All the Classrooms, Lectures Halls, Work shops, Laboratories, Parking	HOD of respective department
3	Electrical Sub-Station, AC Plant, STP, Pump rooms	Chief Project Officer (Engineering)
4	Administrative Block, Store & Purchase, General Administration, Engineering Cell	Security Officer

Companies/Firms are requested to visit the site and prepare a detailed project as per the above said requirement of Cameras.

16. Installation includes not only installation of camera but also installation of monitors, computer/server purchased from the vendor and also the installation of viewer software on DTU presently owned computers as well.

17. The wiring, including installation of POE (Power over Ethernet) injector, conduits and cables installation from switch to the camera will be vendor's responsibility.

18. Installation to be done under supervision of DTU authorized personnel.

19. Any pole required to install a camera for a particular location will be provided by the DTU.

20. If required the display should be able to be clubbed together to form a video wall without using video wall controller.

21. A requisite KVM (Key Board Video Monitor) switch to be installed so that all the servers can be controlled by one mouse and keyboard.
22. The bidder shall propose the most suitable integrated system solutions.
23. In case of any technical clarification/queries, companies/firms may contact to the Executive Engineer, DTU as per details given below:

Executive Engineer
Delhi Technological University
Shahbad Daulatpur, Bawana Road
Delhi-110042

Pre – qualification criteria

1. The Company must produce latest OEMs (Original Equipment's Manufacturers) Authorization Certificate with blue ink signature.
2. Vendor should supply same make of CCTV camera and software like SONY, PANASONIC, CISCO, DLINK, AVTECH, SANYO, IBM, HP, BOSCH, SAMSUNG, LG, PELCO. Server, LED monitor may be a make of IBM, HP, WIPRO, SAMSUNG, LG, DELL. Storage server shall be compatible with Dell Blade Servers.
3. The Company must be well established in the area of Security Surveillance System and must have a valid agreement, establishing their business. If the company is based abroad they must have an office in India.
4. The Company should have sufficient technical expertise and requisite infrastructure to develop/install CCTV & Security Surveillance System.
5. The Company should also have the authorization of full support of maintenance and spares as detailed in this tender document from OEMs.
6. The Company should have minimum average annual financial turnover of Rs.1.00 corers during the last three years ending March 2017 duly certified by Chartered Accountant.
7. The Company shall have executed atleast one similar project of IP Based CCTV Cameras and its Accessories (Security Surveillance System) in the major organization of Central Government / State Government / Central Autonomous bodies / State Autonomous bodies / Central Public Undertaking / State Public Undertaking/Educational Institute during last three years.
8. Letters of reference from past customers together with contact, address etc. of each customer in order to show past performance in the execution of projects of a comparable nature and complexity.
9. The Company should provide a bank solvency certificate of Rs. 100 lakhs.

10. No consortium will be entertained, only individual agencies will be allowed to quote.
11. The Company must have qualified personnel in their company. The Company will supply information of such personnel and alternate for each mentioning the experience in similar works as below :-

	Total Experience	In Similar Works (Years)	As managers of Similar Works
Project Manager other position (List only key management and specialist positions)			

Expression of Interest document should cover the following:

1. Core business areas of operation, number of years in the business, ownership and organizational structure of the Company.
2. Client references and brief details of the similar projects.
3. Audited financial statement for the last 3 years showing financial capability, of F.Y. 2016-17, 2015-16 & 2014-15.
4. Solvency Certificate of Bank.
5. Schematic diagram of the proposed system.
6. Flow chart for control applications.
7. Approach paper for the proposed project.
8. Any other relevant information.

Warranty & Comprehensive Maintenance

1. The complete system shall be under one year warranty, after successful testing, commissioning & handing over to DTU and defect free maintenance during the period, and also quote for 5 year Comprehensive Annual Maintenance Contract with DTU.
 - Any consumables/costing.
 - CMC will include all spares except consumables.
2. Contractor shall make necessary arrangements for keeping the sufficient spares at site to minimize the down time.
3. Training to be given to DTU staff for operation & maintenance, troubleshooting, user level training pertaining to system after successful commissioning.

OTHER REQUIREMENTS AND TERMS & CONDITIONS:

1. Confidentiality: The vendor shall not disclose to any one, any information marked as confidential and communicated or made available or accessible by the Vendor during execution of the work.
2. Ownership: Ownership of data: DTU will own the data, application and its source code whatsoever including supporting classes, modules, etc.
3. A briefing meeting will be held at the Meeting Room, DTU on the date & time intimated wherein the requirements of DTU will be briefed to the companies interested in "Expression of Interest". The interested companies may send their representatives in the meeting.
4. The Expression of Interest shall be delivered by interested bidders in the Engineering Cell, Administrative Block, DTU Campus on or before 31.10.2017.
5. After opening the bid for "Expression of Interest", the selected firms shall be required to give live demonstration/presentation of the proposed system at a short notice of 15 days. Therefore the agencies are advised to prepare themselves with the system well in advance.

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