Ref. No. IIIT-A/DR(S&P) / 045 /2017
Date: 13/04/2017

Expression of Interest (EOI)
(Electronic Surveillance Setup at IIIT Allahabad)

About the Work:

IIITA Allahabad has a campus of around 100 acres, spread over 3 land pieces as a main campus and two hostel premises for boy students. Three Hostels for girls, two hostels for research scholars are in the main campus where in three visitor hostels and a number of (around 50) employee residences also exist. Main campus includes official/academic premises comprising of 7 buildings, a director residence and his camp office surrounded by a boundary wall and four gates, near to residence area, near to office area, in the director residence and last one near to market for campus residents only.

A campus LAN connects all these building and gates over single mode optical fiber network of 6/12/24 cores. Under first phase of deployment of electronic surveillance solution, institute is planning to cover outer and middle layer of below diagram. These two layers of electronic surveillance covers mostly outdoor area at gates at the boundary wall of three campuses and entrance of each buildings in the office/academic area and all hostel buildings including 5 boys hostels, 3 girls hostels and 2 scholars hostels. A functional network will be provided by the institute at all these locations, however, last mile Ethernet/AV cabling for IP cameras and other equipment along with electrical wiring will be done by the working agency project allotted to.

Redundant arrangement for monitoring and recording of output of deployed cameras will be required round the clock at designated locations. Two consoles of 16/20 inputs each will be deployed at two local monitoring centers. Recording of output of cameras will be done real time at local level at two locations near office buildings and hostel buildings. Auto backup of these recorded files on a central storage server will be scheduled for periodic backup on daily basis. Accordingly, adequate storage size on server for storing 30 days recordings of all cameras will be required at the central control room.

At critical sites high end special cameras such as IR, wireless, PTZ, night vision can be deployed for precision capturing. Cameras deployed will be fixed focus IP cameras and possibly with web interface for remote configuration. Requirement listed below may increase or decrease as per actual.

At few locations such as hostel buildings and library, biometric thumb identifiers are also desired for attendance of students. However, for attendance of students in the class room few handheld biometric devices are also required. All these must provide computer interfacing for data dump.

Therefore, interested firms are requested to survey the campus and present and propose a reliable and scalable solution of 24x7 electronic surveillance system including capturing, monitoring

and recording of outdoor movements at and around various entry gates. After vendor conference, tender containing final requirements will be floated among the participating firms for their bids. Interested firms are requested to submit EOI (expression of interest) latest by **11/05/2017 at 12:00 Noon.**
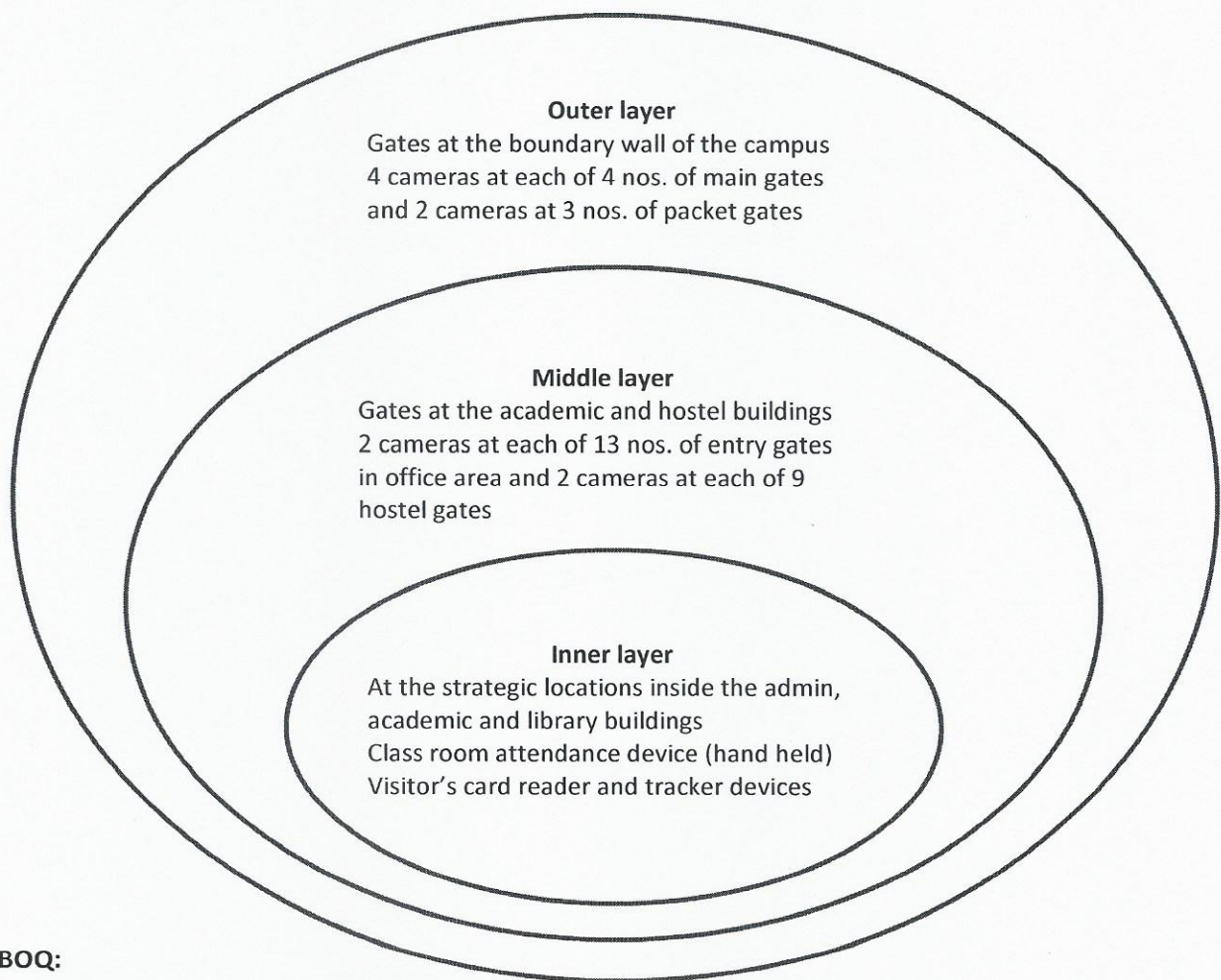
You are requested to submit the EOI by courier/speed post with complete details addressed to:

Dr. Seema Shah
Deputy Registrar (S&P),
Deoghat, Jhalwa,
Allahabad-211012.
Email: info.purchase@iiita.ac.in, dr.sp@iiita.ac.in, ar.sm@iiita.ac.in
Contract: 0532-2922217, 2178

(Dr. Seema Shah)
Deputy Registrar (S&P)

Deployment Scheme (3 Layered):

Phase-wise deployment scheme is as below:

Outer layer
Gates at the boundary wall of the campus
4 cameras at each of 4 nos. of main gates
and 2 cameras at 3 nos. of packet gates

Middle layer
Gates at the academic and hostel buildings
2 cameras at each of 13 nos. of entry gates
in office area and 2 cameras at each of 9
hostel gates

Inner layer
At the strategic locations inside the admin,
academic and library buildings
Class room attendance device (hand held)
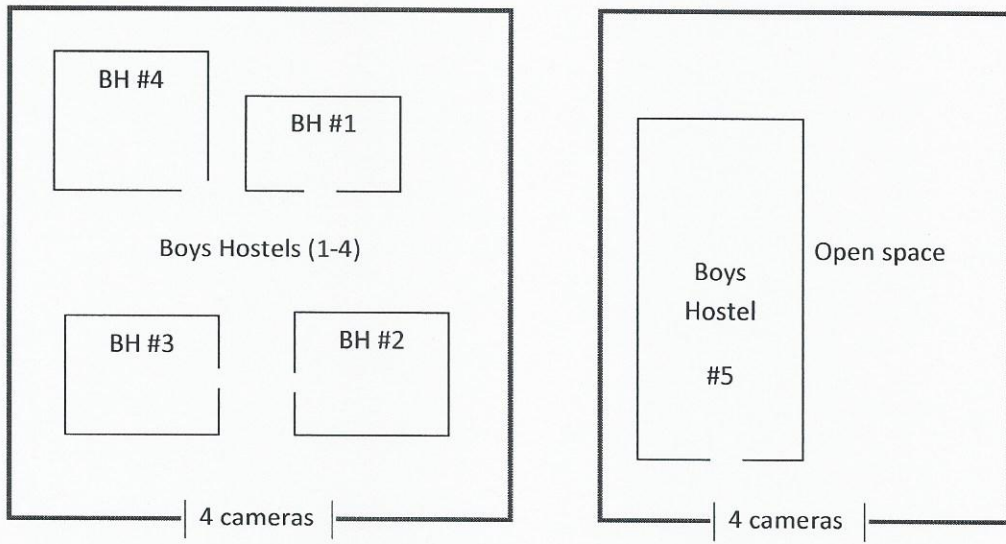Visitor's card reader and tracker devices

BOQ:

- IP Camera = 116 nos.(22 + 44 + 50according to above two layers)
- Monitoring console = 2 nos. (hostel gate reception and main gate #2)
- Display TV = 2 nos. (Security Officer, Reception)
- Recording server and storage (DVR) = 1 no. (server room/control room)
- PoEswitch (24 Ethernet, 2 OFC ports) = 5 Nos.
- Ethernet wiring for IP camera = 5000 meters (approx.)
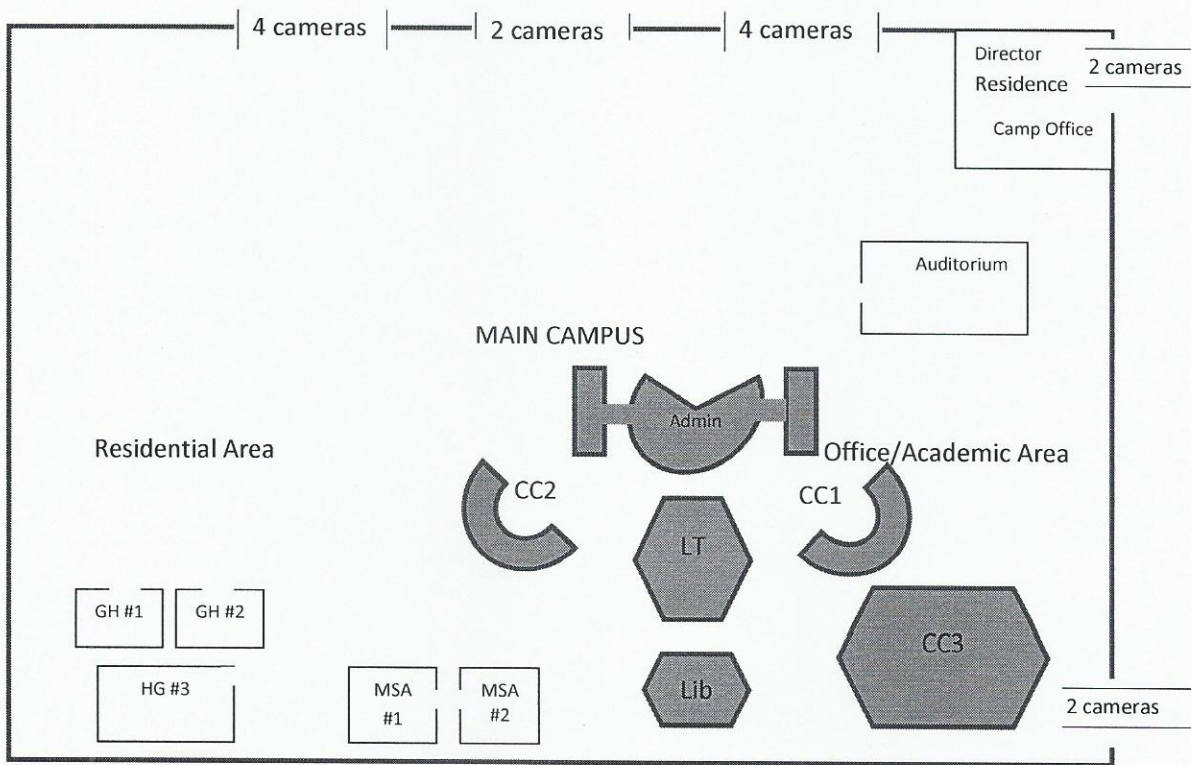- Electrical wiring for equipment = 3000 meters (approx.)

Campus Layout Diagram:

BH #4

BH #1

Boys Hostels (1-4)

BH #3

BH #2

| 4 cameras |

Boys Hostel #5

Open space

| 4 cameras |

Road

Road

| 4 cameras | 2 cameras | 4 cameras |

Director Residence

2 cameras

Camp Office

Auditorium

MAIN CAMPUS

Admin

Residential Area

Office/Academic Area

CC2

CC1

LT

GH #1

GH #2

CC3

HG #3

MSA #1

MSA #2

Lib

2 cameras

Road