

REQUEST FOR PROPOSAL

FOR

**Supply, Installation, Commissioning & Project Management
of
Outdoor Surveillance system
For
Yamunanagar and Sonipat
on Turn Key Basis**



RFP no. Hartron/Proj/outdoor surveillance/YMN-SPT/ 2011-12/08

Dated: _____

Haryana State Electronics Development Corporation Limited

S.C.O. 111-113, Sector 17-B, Chandigarh – 160017 (India)
Ph. 0172-2704922, 2710743, 2714302, 2722961-62, Fax-0172-2720113,
e-mail: projectdivision@hartron.org,
Website: www.hartron.org

IMPORTANT INFORMATION

Non-refundable RFP cost	Rs.5000/- through demand draft/bankers pay order from a scheduled bank, drawn in favour of “Haryana State Electronics Development Corporation Limited”, payable at Chandigarh.
Availability of RFP document	11.30 am to 4.00 pm on all working days starting from 11.05.11 till 03.06.11 from the office of Hartron upon the payment of non refundable RFP cost as noted above. The document can be downloaded from our website www.hartron.org for information purpose only. However, the bidder downloading the document required to purchase the document so as to participate in the said bid process.
EMD	Rs. 2,00,000/- in the form of Demand Draft in favour of Haryana State Electronics Development Corporation Ltd. payable at Chandigarh from a scheduled bank.
Pre bid conference	At 12.30 PM on 19.05.11 Venue: Haryana State Electronics Development Corporation Limited. S.C.O. 111-113, Sector 17-B, Chandigarh
Last date for submission of bids	Up to 2:30 P.M. on 06.06.11 in Haryana State Electronics Development Corporation Limited. S.C.O. 111-113, Sector 17-B, Chandigarh
Opening of Pre-Qualification bids	3:00 P.M. on 06.06.11 in Haryana State Electronics Development Corporation Limited. S.C.O. 111-113, Sector 17-B, Chandigarh
Language of the bid	This bid should be filed in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the bidder.

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Section - 1
INTRODUCTION

1. Introduction

- a) Haryana Police has planned to modernize its Surveillance monitoring and communication infrastructure in Yamunanagar and Sonipat.
- b) The Haryana Police is looking for a Wireless (open band) and or leased line/hybrid Network based on a high capacity for Yamunanagar and Sonipat. Haryana Police shall have the discretion to choose the option found suitable.

1.1 System objective-

- a) The objective of the system is to create an outdoor surveillance system with a communication infrastructure that is omnipresent in nature.
- b) The Project envisages implementation of an I.P. based Video Surveillance system for aiding visual surveillance for:
 - Law & Order,
 - Special Event like public gatherings, processions etc.
 - Crime Control,
 - Traffic control,
 - Incident management and
 - Disaster Response

1.2 Network Architecture

The bidder is required to offer the solution for surveillance based on Wireless network (Open band) and or leased line. The bidder can also offer a hybrid solution. The bidder is required to give offer for all the options. Haryana Police shall have the discretion to choose the option found most suitable.

1.3 Integration with other System

The required system should have seamless integration and interoperability with other system already installed or proposed to be installed in the police department

Section - 2
Scope of Work

2. Scope of work

The minimum specified scope of work to be undertaken by the bidder is to be performed as per the specifications and conditions mentioned in the different parts of this document, any further amendments issued in this regard and the contract to be signed by the successful bidder subsequently.

- (i) The scope of work include design and engineer an IP network based outdoor surveillance system and should provide turn-key solution for the entire sites and include any missing item(s) notwithstanding the detailed Bill of Material (BOM) given in RFP for the successful end to end implementation.
- (ii) The System should facilitate viewing of live and recorded images and controlling of all cameras by the authorized users. System should provide interoperability of hardware, Operating System, software, networking, printing, database connectivity, reporting, and communication protocols
- (iii) The broad system architecture includes IP network connectivity for backbone of the network, IP CCTV surveillance equipment, Back-end equipment and field equipment.
- (iv) Supply, installation and commissioning of requisite hardware and software for the out door surveillance system to connect the Central Control Room (CCR) with locations of respective cities mentioned at annexure “1” of this RFP.
- (v) The bidder for successful completion of project shall provide the poles and fixtures required for each location. All the fitting should be under ground where ever possible.
- (vi) Earthing, Digging, Filling and ensuring to make the site to its original condition will be the responsibility of the System Integrator including supply and installation of poles, housing & any additional fixtures.
- (vii) For the current first phase, IP Speed Dome Cameras, Number Plate Reader Cameras (NPRC) and Fixed Megapixel IP Cameras are required to be installed at locations (as per the Annexure “1” along with all the necessary components (Servers/Storage/Client workstations) to make a complete functional IP CCTV system.
- (viii) This system shall allow for expansion of the IP CCTV system in subsequent phases on procurement of requisite licenses.
- (ix) The proposed system shall provide seamless integration and interoperability with other system already installed or proposed to be installed in the police department.

- (x) The requirement mentioned in this RFP calls for a complete working system and not components thereof. Bids must be complete with all equipment and required accessories along with necessary power systems including standard Un-interrupted Power Supply for the entire equipment, video connectors, patch connectors, patch leads, mounting and fitting hardware, plugs, sockets and any hardware/software, etc. as required for complete installation of the System under this contract. The minimum suggestive technical specifications including suggestive Bill of Material is given in Section-3 of this RFP.
- (xi) Management of the project for minimum five years to be renewable annually, which includes maintenance and management of the equipment/infrastructure installed and commissioned under this RFP for end to end services. The bidder may also quote for project management for sixth and seventh year and decision in this regard shall be taken by HARTRON in consultation with Haryana Police.
- (xii) The successful bidder is required to conduct a detail site survey and shall submit the project plan that should include the following:
 - (a) Site survey report, connectivity diagrams for all the sites.
 - (b) Document giving the details of methodology using the best practices of the industry for the connectivity and optimized configuration for network devices to be installed and configured under this project as well as details about methodology to be used for Project Management, and Service Level Management.

2.1 Scope of Supply

- (i) The successful bidder shall supply all hardware which includes connectivity equipment, IP CCTV system, ANPR camera hardware, servers, storage, control room equipment, work stations, projector etc and requisite software as per specifications & configurations mentioned in Section-3 of this RFP.
- (ii) Further, the successful bidder must not bid/supply any equipment that is likely to be declared end of sale within one year from the date of supply. The successful bidder would be required to replace all such equipment with latest and at least of equivalent configuration. The successful bidder shall submit an undertaking from OEM in this regard to the tenderer.
- (iii) All the passive components need to be of the same make across the entire site to be connected under this RFP to ensure standardization and Certification from the manufacturers.
- (iv) The successful bidder shall be responsible for end-to-end implementation

of connectivity of all the locations under this RFP and shall quote and provide/ supply any item(s) of latest make and model not included in the bill of materials, but required for successful implementation and commissioning of the system as well as its management. For such item(s), which have not been quoted by the successful bidder in the bid, but are required for successful completion of the project, the tenderer shall not pay for the same.

- (v) The supply of all the installation material/accessories/ consumables necessary for the installation of the systems.
- (vi) The successful bidder shall provide patches and updates of OS free of cost for 5 (five) years for the items quoted under this project.

2.2 Scope of installation, commissioning & system integration

- (i) The scope of installation, commissioning & system integration shall mean to install, configure and integrate the following (but not limited to), adhering to essential security measures.
 - a) Carry out installation of active components, passive components and accessories supplied as per standards for successful integration and implementation of the systems at each site connected under this RFP.
 - b) Configuring and fine-tuning of subsystems to achieve overall optimal network performance and highest security.
 - c) The components to be installed and configured shall include but not limited to:
 - o Network components
 - o Erection of mast/poles
 - o Video Surveillance Systems
 - o PTZ cameras, NPRC, Fixed cameras
 - o Network Video Management Hardware (Server)
 - o Storage hardware
 - o Computer hardware
 - o Softwares
 - o Automatic License Plate Recognition Camera, etc.
 - o High Resolution projector with remotely controlled screen connecting to all the workstations in the respective control rooms .
 - o Power backup
 - d) All patches and updates shall be provided by the successful bidder during the currency of the contract.

- (ii) Carrying out all general tests such as Power on test on delivery, pre-installation checks to ensure correct connections, completeness of system documentation etc.
- (iii) The successful bidder shall not cause any damage to Government buildings/other premises/property, if any damage occurs, the successful bidder will perform restoration. Trenches, path/road cutting, etc. will be back-filled and restored to the original condition immediately after laying of the conduit/cable/erection of mast etc. The successful bidder if required shall also plug conduits and entrance holes with suitable sealing material, where the cable has been laid.
- (iv) The system shall be subjected to inspection at various stages. The successful bidder shall follow all Safety Regulations and practices.
- (v) Bidders shall spell out various tests that are being proposed to be carried out for demonstrating the functionality of the solution.
- (vi) The Successful Bidder shall provide warranty for all the components including hardware, software, etc. as per RFP for a period of Five Years from the date of the issuance of Final Acceptance Certificate. Network active components shall have a warranty of 5 years and passive components shall have a performance warranty of 20 years. Any delay for acceptance caused by the successful bidder will result in automatic extension of the total warranty period as well as the facility management period by the same period.
- (vii) The bidder shall further provide the rates for the comprehensive AMC of the entire equipment including software supplied under this RFP for Sixth, Seventh and Eighth year and shall be considered in the commercial evaluation.
- (viii) The requisite connectivity shall be arranged by successful bidder. The successful bidder shall be responsible for the commissioning and maintenance of the circuits. The bidder shall be required to quote for each circuit separately in the quotation form.
- (ix) Civil works: The requisite space shall be provided by Haryana Police at all locations.
 - a) The successful bidder shall have to undertake the cabling/erection of mast/fixing of poles etc. as per the requirement.
 - b) Civil works including digging etc., if any, required for providing end to end connectivity will be the responsibility of the successful bidder.

- c) The successful bidder shall be responsible for restoring the areas to its original shape wherever, the digging if any has been undertaken by him for end to end implementation of the system.
- d) All other civil works will be in the scope of the Haryana Police but the successful bidder shall give the drawings of the proposed civil works in Autocad.
- (x) Electrical works:
 - a) Electrical cabling upto the equipment to be kept at each location, rack etc. as the case may be shall be the responsibility of the successful bidder.
 - b) Carry out installation and configuration of the electrical components as per the standards.
- (xi) The quantity of passive items if any shall be verified by the concerned official at each site.

2.3 Project Management

- a) The successful bidder, will undertake to completely manage and maintain the said equipment/infrastructure installed and commissioned at these sites as mentioned at Annexure-1 under this RFP for a minimum period of five years after the clearance of Final Acceptance Test of the project by Technical Committee constituted by the Haryana Police and with effect from the date on which acceptance certificate for successful commissioning of the system is issued by HARTRON and Haryana Police jointly. During the said period of undertaking, the successful bidder will be responsible for the smooth working of the total system installed at the locations under this project and to ensure minimum 99% uptime. This task of management of project will be termed as 'Project Management' in the rest of the document. HARTRON in consultation with the Haryana Police may extend the project management period for sixth and seventh year as well".
- b) Successful bidder shall depute minimum one engineer and one technician each to operate, configure, maintain and manage the said network during the Project Management period round the clock at each city. They will either be stationed at the respective control rooms or at any other place as per the requirement of Haryana Police. The successful bidder shall provide a mobile phone at his cost to each of this staff so that the police personnel can reach them for fault rectification and other related services.

- c) The cost, if any, for undertaking the Project Management as specified at (a) of this section, should be specified separately for each year including third year.

2.4 Scope of Trainings

Detailed training for operation and management of equipment/infrastructure to minimum 5 officials at each installation location to the satisfaction of the Haryana Police and shall be mandatory so that Haryana Police officials can handle the equipment/infrastructure, once the project management period is over.

- (i) The successful bidder shall impart hands on training with detailed course material on the installed equipment covering at least the following:-
 - a) Configuration and their operation of Networking Equipment, Cameras and other equipment etc. supplied under the project.
 - b) Introduction to Computers, servers, storage devices their Configuration and Operations
 - c) Network video management software etc.
 - d) Trouble shooting and preventive maintenance
- (ii) The training shall be carried out for a period of two weeks as mentioned above for which the detailed training schedule along with the content of the training shall be submitted by the successful bidder. All the expenses towards training excluding related to travel, boarding, lodging of the trainees so deputed by the Haryana Police shall be borne by the bidder.

2.5 Scope of Acceptance Testing

- (i) The acceptance tests for the sites shall be carried out in accordance to the methodology mentioned at clause no 6.16 of this document.
- (ii) The above said acceptance test shall be conducted at each location by a committee comprising of officers from Haryana Police and HARTRON, and Head of the respective site or any officer or person and duly authorized by the tenderer.
- (iii) Haryana Police alongwith Hartron will prepare detailed Acceptance Testing Plan (ATP) including test parameters, commitments etc. which shall be acceptable to the successful bidder for each of the site components. The test parameters, commitments etc. as decided & approved by the Hartron and Haryana Police shall be final and binding on the successful bidder.
- (iv) The successful bidder shall ensure that the cabling and crimping/termination is done in accordance with the industry standards and

supported by the Original Equipment Manufacturer (OEM) fully tested and certified for operations for a minimum period of 20 years.

- (v) All the functionality, features and configuration relevant to his project shall be documented and demonstrated by the successful bidder to the tenderer.

2.6 Additional Expansion

HARTRON in consultation with Haryana Police may procure additional equipment for more locations on pro-rate basis upto a maximum limit of 50% from the successful bidder without tendering.

2.7 Bandwidth Pre Requirement

The bidder must ensure that the bandwidth requirement for entire project keeping in view of the present and future requirements.

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SECTION - 3
TECHNICAL REQUIREMENT

3. Technical Requirement

3.1 General

The technical specifications specified in this section are the minimum suggestive specifications.

- i) Bids not meeting these minimum suggestive technical specifications are liable to be rejected. In case the equipment quoted exceeds/differ with the RFP technical specifications, the same should be clearly mentioned alongwith justification.
- ii) The bidder can indicate missing components if any, that may be considered necessary in his bid to implement and operate the facility to meet the required objectives of the project as has been laid down in this document.
- iii) The bidder will offer equipment that will best accommodate and meet the present and future requirements of Haryana Police.
- iv) The equipment supplied should tolerate Indian power and weather conditions. Further, all equipment shall comply with the applicable power and safety standards. For example, NEBS: Network Equipment Building System; Physical protection: Telcordia GR-63, ETSI 300-319; Electromagnetic Compatibility and Electrical Safety; GR-1089, ETSI 300-386 and any other.
- v) Bidder to specify required line voltage, voltage tolerance, frequency tolerance, max. Current consumption, max power consumption, maximum operating temperature, maximum operating humidity for each of the equipment.
- vi) One set of service and operation/instruction manual is required to be supplied with each of the equipment.
- vii) Successful Bidder shall maintain necessary inventory of spares for smooth uninterrupted networking operations of these sites.
- viii) The Successful Bidder shall provide patches, updates and upgrades of all the supplied software free of cost for five years.
- ix) All the equipments should be new and of the prevailing/current standard production of the manufacturer at the time of the proposal and shall not bid/ supply any equipment that is likely to be declared end of sale with one year of the date of the supply of the said equipment.
- x) The successful bidder is required to supply the latest version of software, providing all the features enumerated in this specification, at the time of

award of contract. Equipment must be compatible with other Network vendor equipment. The principal vendor of products/equipment supplied under this project should have relevant quality certifications such as ISO 9001 and all the products should be certified by the original manufacturers.

- xi) Local cabling - Every connection to the local network should be through Category 6 Unshielded Twisted Pair (UTP-CAT-6) (or better) and 100/1000 Mbps (or faster), but compatible with overall infrastructure. All cables should be laid down within the conduit pipes (of 1.5 inch diameter or more as required) and the same should be tightly clamped on the wall.

3.2 ARCHITECTURE

- a) The bidder is required to offer the solution for surveillance based on Wireless network (Open band) and or leased line. The bidder can also offer a hybrid solution. The bidder is required to give offer for all the options. Haryana Police shall have the discretion to choose the option found most suitable.
- b) The required system comprises of the following
1. Network :- Leased line or Wireless on Free band or hybrid for Karnal, Panipat and Rohtak as mentioned at 'b' of 3.2 (please note that Haryana Police or Hartron will not provide any assistance for frequency or any licensing issue pertaining to the connectivity including interferences etc.)
 2. IP CCTV Surveillance equipment including High end Analytics, Edge devices, Control Room equipment etc.
 3. Automatic Number Plate Recognition System (ANPR) System, PTZ 2 Megapixel and Fixed Cameras including state of the art software with OCR technology and multiple alert options.

Important Points of Compliance for the Network to be proposed by bidders:

- In case of Leased Line connectivity whether in whole or part will be considered for a period of 10 years for evaluation of network.
- Bidder shall propose the proposed network and how it would maintain the uptimes of 99% or above for the network availability.

3.3 Bill of Material

All the equipment for sites should be rack mountable & be supplied with necessary accessories. The suggestive Bill of Material is as under:-

S. No.	Description	Yamunanagar	Sonipat	Total

1.	IP 2 Megapixel Fixed Camera including outdoor housing, varifocal lens 15-50 mm, bracket etc.	36	48	84
2.	IP PTZ, Speed Dome Camera including outdoor housing	14	13	27
3.	Poles for PTZ Camera including mounting kits etc.	14	13	27
4.	Local Switch, 16 Port, Layer 2, 10/100	14	13	27
5.	Control Room Switch, 24 Port, Layer 3, 10/100/1000	1	1	2
6.	Workstation for Video Management and Mounting Core 2 Quad, 2.0 GHz, 4 GB RAM, 500 GB Internal HDD with 22" LCD	3	3	6
7.	Software for Video Management	3	3	6
8.	NVMS Server, Quad Core Xeon, 3.2 GHz, 4 GB RAM or better	1	1	2
9.	Storage, RAID 5, With 6 TB HDD	1	1	2
10.	Video Analytics	Set for 50 Cameras	Set for 61 Cameras	Set for 111 Cameras
11.	Joystick cum Controller	3	3	6
12.	Rack for Server	1	1	2
13.	High Resolution Projector with min 5000+luminance connected to all workstation as well as automatic remotely operated screen	1	1	2
14.	2KVA Online UPS for Field Equipment per Local Location with 4 hr backup	14	13	27
15.	10 KVA Online UPS for Control Room with 4 hr backup	1	1	2
16.	AMPR, (Complete Solution as per specs). No of lanes	28 Lanes	48 Lanes	76 Lanes
17.	Local Cabling (Bidder to propose)	As per Requirement	As per Requirement	As per Requirement
18.	Control Room Set up (Bidder to Propose)	As per Requirement	As per Requirement	As per Requirement
19.	Connectivity (Bidder to propose as per the options)	As per Requirement of locations and bandwidths	As per Requirement of locations and bandwidths	As per Requirement of locations and bandwidths
20.	Installation & Commissioning	LS	LS	LS
21.	Junction Boxes	14	13	47
22.	Any other item			

3.3.1 Video Surveillance System (VSS) Specifications:

This system shall allow for expansion of the IP CCTV system in subsequent phases on procurement of requisite licenses/hardware/ services

3.3.1.1 Pan Tilt Zoom (PTZ) Camera Specifications:

A GENERAL

The network (IP) PTZ Dome camera shall consist of a dome drive with a variable speed for pan and tilt with continuous 360° rotation, 1/4-inch high resolution color camera, motorized zoom lens with optical and digital zoom and auto focus and high resolution digital video of 4CIF (752x582 PAL) using the MPEG-4 compression algorithm and TCP/IP transmission.

B Camera specifications

- (i) Network (IP) based camera available in NTSC and PAL formats.
- (ii) maintain 30fps NTSC/ 25fps PAL video at 4CIF digital video resolution (704x480 NTSC/ 704x576 PAL)
- (iii) The camera shall digitize and compress the video using the latest in video compression technology.
- (iv) The camera shall have a minimum focal length of 3.4 mm to 119mm
- (v) The camera shall have a minimum Optical zoom of 35X and 10x digital or better
- (vi) The digital video shall provide dual encoded video streams to allow simultaneous and independent viewing and recording of live video at different frame rates and/or quality.
 - a) The camera shall provide the option to set each stream at a frame rate between 1-30 NTSC /1-25 PAL
 - b) The camera shall provide the option to set each stream at variable bandwidth from 64kbs to 6Mbs
- (vii) The camera shall have minimum 4 Alarm inputs
- (viii) The camera shall have 1 Auxiliary Relay Output and 1 Auxiliary Output
- (ix) The camera shall have an Ethernet (IP) interface using an RJ-45 CAT5, CAT5e or CAT6 UTP cable
- (x) The camera shall as minimum provide the following communication protocols:TCP/IP, UDP/IP, RTP/IP, HTTP, IGMP, ARP
- (xi) The camera IP protocol shall communicate over the Ethernet network using Multicasting technology.
- (xii) The camera shall comprise of Image sensor of a 1/3 or 1/4 CCD

- (xiii) The camera shall deliver a 360° continuous pan travel
- (xiv) The camera tilt travel as minimum shall be between 0° to -90°
- (xv) The camera shall provide 90 or better preset positions with preset accuracy of +/- 0.1°
- (xvi) The camera shall provide a freeze image option for preset call up
- (xvii) The camera should have a built in Electronic Image Stabilization.
- (xviii) The camera should have a built in Image Enhancement feature
- (xix) The camera shall have a built in auto flip feature
- (xx) The camera shall provide four (4) user defined patterns including pan, tilt, zoom, functions; pattern programming shall be available through the digital IP management system
- (xxi) The camera shall provide “home” settings for the camera to return after pre-programmed time frame
- (xxii) The camera shall provide eight privacy windows blanking.
- (xxiii) The camera shall be a minimum high-resolution 540 TV lines.
- (xxiv) The camera shall have progressive scan/Interlaced
- (xxv) The camera shall have 360° /sec Pan Preset Speed and 180° /sec Tilt Preset Speed
- (xxvi) The camera shall have light sensitivity of 0.55 lux color/day and 0.006 monochrome/night
- (xxvii) The camera shall provide angle of view of 55.8° wide and 1.7° tele
- (xxviii) The camera shall have white balance controls, manual or automatic
- (xxix) The camera shall have a minimum Electronic Shutter speed of 1/1.5 ~1/25,000
- (xxx) The camera shall have automatic backlight compensation (BLC)
- (xxxi) The camera shall have automatic gain control (AGC).
- (xxxii) The Video to Noise ration should be >50 dB
- (xxxiii) Camera shall provide Day/Night option - on/off
- (xxxiv) The cameras shall support Wide Dynamic Range upto 128x
- (xxxv) The camera shall maintain operation at temperature of 32° - 122° F (0° -50° C) in normal operation
- (xxxvi) The camera shall have Power over Ethernet (PoE)

- (xxxvii) The housing shall be mountable in Outdoor bracket mount
- (xxxviii) The camera shall meet the standards of NEMA 4X, IP 66
- (xxxix) The minimum certification should be UL Listed, FCC/EN
- (xl) must have Multi-stream H.264 and Motion JPEG: 3 simultaneous, individually configured streams in max. resolution at 30/25 (NTSC/PAL) fps; more streams if identical or limited in frame rate/resolution, Controllable frame rate and bandwidth, VBR/CBR H.264.
- (xli) must have Pan & Tilt speed > 400 degree/sec.
- (xlii) The camera as a minimum shall maintain 30fps NTSC/25fps PAL video at 4CIF digital video resolution (704X480 NTSC/704X576 PAL)

3.3.1.2 Fixed 1.3 Megapixel High Definition Camera Specifications:

A GENERAL

The network (IP) camera shall be with 1/3-inch high resolution Megapixel color camera, digital video

Camera specifications

- (i) The camera shall be a network (IP) based camera.
- (ii) The camera shall be available in NTSC and PAL formats.
- (iii) The camera shall offer dual stream upto a resolution of 1280 x 1024 in progressive scan format
- (iv) The camera as a minimum shall have a digital video resolution of 1280 x 1024
- (v) The imager type could be of CCD/CMOS
- (vi) The camera shall digitize and compress the video using the latest in video compression technology and shall utilize a minimum of H.264 video compression
- (vii) The IP camera shall provide a removable local storage of Mini SD
- (viii) All the firmware/software upgrades shall be done remotely over the IP network.
- (ix) The camera should support IEEE 802.3af specifications for power over Ethernet.
- (x) The camera shall provide the option to set each stream at variable bandwidths
- (xi) The camera shall have an Ethernet (IP) interface using an RJ-45 CAT5, CAT5e or CAT6 UTP cable

- (xii) The camera shall as minimum provide the communication protocols such as TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP, SSH, SSL, STMP, FTP, MDNS
- (xiii) The camera IP protocol shall communicate over the Ethernet network.
- (xiv) The camera should support Day / Night Operation. The minimum illumination in color should be 0.6 lux.
- (xv) The camera should be fully password protected
- (xvi) The camera should have a CS varifocal lens of 15-50 mm
- (xvii) The camera shall be comprise of a camera block "driver" which consist of a **1/3 or 1/4"** CCD/CMOS
- (xviii) The camera shall maintain operation at temperature of 32° - 122° F (0° -50° C) in normal operation
- (xix) The camera should be fitted in a housing capable of withstanding conditions prevailing on an Indian port.
- (xx) Certifications: UL, FCC/EN

3.3.1.3 Server Hardware Specifications:

A. Network Digital Video Management Server (NVMS)-Hardware

- (i) The NVMS Server shall be of the most recent computer technology and shall cover the NVMS minimum requirements from reputed makes like HP, IBM, Dell
 - a) As a minimum the NVMS server shall be:
 - i Quad Core Xeon 3.2 GHz or better
 - ii 4 GB of RAM or Better
 - iii Dual/redundant power supply
 - iv Dual/redundant 10/100/1000 network interface card (NIC)
 - v To provide an advanced and reliable system the following server must be provided for the recording system
 - 1) Dual mirrored 40G Hard drive for Windows 2003 Server based Operating system and NVMS server software
 - 2) Video storage on Direct Attached Storage (DAS) system which as minimum configured as RAID5
 - vi If storage requires external attached RAID system a Fiber Channel Interface Card shall be used to interface the external RAID to the NVMS Server.

- vii To provide an advanced and reliable system the operating system shall be Windows 2000- Server or 2003- Server level (Win 2000 Pro or XP pro will not be considered as approved equal)

3.3.1.4 Storage Hardware

- (i) Two redundant, hot-pluggable active/active RAID controller modules with 2 iSCSI host port per controller
- (ii) Redundant, hot-pluggable power supply/fan modules
- (iii) 2 GB i.e 1 GB per controller and expandability to 60 drive
- (iv) Battery backup in each RAID controller module that protects against cache data loss for up to 72 hours
- (v) Online firmware updates for the RAID controller modules, NVSRAM, and physical disks
- (vi) Multi-path failover for redundant configurations, which automatically reroutes I/O activity from a failed, offline, or removed RAID controller module to its alternate RAID controller module (or from a failed iSCSI NIC to its peer)
- (vii) Support for RAID levels 0, 1, 5, and 10
- (viii) Support for 255 virtual disks with a maximum capacity of 2 TB each
- (ix) Expandability of Minimum 45 drives either SAS or SATA .

3.3.1.5 Video Surveillance System and Analytics Software Specifications:

A GENERAL

- (i) The proposed solution shall be based on latest Windows Server Operating System only for the system servers and Windows XP-Pro with Service Pack 2 for the client workstations.
- (ii) The IP Based NVMS shall allow for installation of Anti-Virus and network security Software on the server and client machines
- (iii) The NVMS shall support video both from analog and IP fixed color/B&W cameras, PTZ/Dome cameras, infrared cameras, X-Ray cameras, low light/IR cameras, and any other camera that provides a composite NTSC/PAL 1v p-p video signal.
- (iv) Designed to serve as an accurate and effective solution for detecting and monitoring objects, both moving and stationary, in pre-selected areas and/or crossing virtual lines within the camera's full field-of-view.
- (v) Provide exceptionably reliable detection using behavioral-based software algorithms.
- (vi) Monitors, identifies, and tracks objects for security violations, using a pre-determined and defined security policy.
- (vii) Enable an immediate response through real-time alerts.
- (viii) Runs on computer networks using industry-standard equipment.
- (ix) The NVMS should support view on PDA/Mobile Devices

B Operational Environment

The VIS shall have the capability of operating in an environment that requires multi-tasking, when using multiple cameras spread over a wide area. The VIS shall be able to assess and determine trends for specific sequences of events that constitute a threat-defined situation; output one or more alerts based on user-defined criteria; determine preferential escalation implementations and responses; and immediately assess response actions for viability. It shall also be capable of counting people within a demarcated area. This is achieved by using proprietary algorithms to manage multiple complex events simultaneously, with a bare minimum of false alarms. The cameras should support multiple analytic rules.

C Video Standards and Formats

- (i) VIS shall have the capability of accepting analog (NTSC, RS-170, and PAL) video signals and a range of digital video compression video stream including MPEG4, H264/MPEG4 AVC, MJPEG, and MJPEG2000.
- (ii) VIS shall have the capability of providing video processing for CIF frame sizes (320x240 for NTSC, 352x288 for PAL), with the capability for high resolutions, including 4CIF frames, when suitable hardware is made available. If required, megapixel and high-definition (HD) cameras can be connected to the system on request.
- (iii) The NVMS software should be able to integrate with various makes.

D Detection and Tracking Rules Capabilities

- (i) VIS shall have the capability to operate both indoors and outdoors under either day or night illumination conditions which can range from full sunlight to twilight and including conditions with slowly varying (complex) illumination. Both video and infrared (thermal) cameras are supported, including video cameras used with external illumination.
- (ii) VIS shall have the capability to compensate for background interferences, such as moving trees or any other foliage or moving objects that are part of the background. This includes noise filters for shadows cast by objects, varying degrees of illumination levels, and random environmental factors like clouds, rain, snow, ice, and the secondary effects of a strong wind.
- (iii) The VIS applications shall enable the customer programmable control over:

E Video Motion Detection (VMD) Capabilities

- (i) Motion Detection should allow the following to tune the motion detection algorithm including default setting
 - i. Image to control the quality at which the video is saved
 - ii. Update Rate
 - iii. Load balance - dynamically control the update rate
 - iv. Sensitivity
 - v. Light condition - should allow to ignore sudden change in lighting
 - vi. Alarm trigger level - should be automatically tune itself to changing light and ambient movement conditions

- (ii) Area Masking - VIS shall have the capability to enable the end-user to define areas for each camera view, to include or exclude from analytic processing. There are two types of Masking Regions: No detection Type and No tracking Type.
- (iii) Intelligent masks - VIS shall have the capability to have a feature of the intelligent masking which allows full motion detection and tracking of objects passing through a masked area, but will ignore any motion that appears inside the area unless it moves into the non-masked area.
- (iv) Advance motion should be highly configurable and be tuned to more accurately match the kind of objects you are interested in detecting. The following settings should be applied to the advance motion detection:
 - Average speed The option to turns on calculation of movement speed with cameras "top down" or near top-down view. This option should allow calculating the speed at which the objects are most likely to be moving.
 - The masks feature shall allow to make the software ignore motion that occurs in specific areas in the camera's field of view. This feature will be used in an area that is likely to generate a lot of unimportant motion, such as a window looking out on to a road, or an area not to be monitored or recorded for privacy reasons. The masks window is accessible by pressing the multicoloured masks button on the video window.
 - Intelligent Masking should be a feature of the motion detection system, and shall allow full motion detection and tracking of objects passing through a masked area, but will ignore any motion that appears inside the area unless it moves into the non masked area.
 - The software should provide an advanced form of motion detection based around the tracking of moving objects, and allows video analysis such as object counting.
 - The software should be highly configurable and can be tuned to more accurately match the kind of objects of interest for detection.
 - The software should allow the type of object of interest in tracking.
 - The software should be able to detect the speed at which the objects are most likely to be moving.
 - The software should have an option to turn on speed calculation of movement.
 - Should be able to define a custom object and detection settings to better match the environment.

- The software should be able to detect the average size and shape of the objects of interest in tracking.
 - The software should be able to calculate the distance in from the edge of the camera's field of view which may be used as a margin for objects moving out of the camera's field of view. Objects between this edge margin and the edge may be discarded sooner than those within the central part of the camera's field of view.
- (v) Auto Masking - VIS shall have the capability to enable the end-user to define for each Detection Region displayed in the camera view whether or not to ignore motion of large objects and/or repetitive movements.
- (vi) Object Counting - VIS shall have the capability to track the quantity of objects. For example, it must be able to provide a running tally, meeting pre-defined counting lines including the option to count objects that cross more than one line in any direction.
- (vii) Object Tracking - VIS shall have the capability to track a specific object as it moves into and through a detection region and/or crosses a virtual line. For example, track moving vehicles, people or vessels (containers).
- (viii) Tracking multiple objects - VIS shall have the capability to define and track multiple objects converging or diverging. For example, people, vehicles meeting in one spot, or a crowd (multiple people objects) converging (forming) or dispersing, within a pre-defined marked area.
- (ix) Detecting the Direction of Movement - VIS shall have the capability to detect humans and objects moving in a Detection Region, and then generate an alert when the direction of movement and/or the location of the object meet user-defined rules. The object location function includes the ability to generate an alert when an object crosses an end user-defined line in a particular direction, which is also user-defined.
- (x) Wrong Direction Detection - VIS shall have the capability to detect humans and objects moving in the wrong direction from a predefined direction marked as a Virtual Line on the screen. Generate an alert when the direction of movement and/or the location of the object meet the end user-defined rules. The object location function shall have the capability to generate an alert when an object crosses an end user-defined line in a specific direction.
- a) Specific VMD features required are (Mandatory):
 - b) Detect an object as small as the client can identify on the monitoring screen. This is relative to the camera and lens combination and the overall distance.
 - c) Generate an alert when an object moves in a defined Detection Region within the camera's field-of-view, or

- remains within a Detection Region for a pan-tilt-zoom (PTZ) camera.
- d) Ignore changes in background conditions.
- e) Compensate for camera shake and minor camera movement.
- f) Handoff PTZ camera for close-up object interrogation.
- g) Define unlimited number of detection regions per camera.
- h) Track objects emerging from and located on water.
- i) Filter out noise caused by moving foliage, snow, rain, wet conditions, shadows cast by objects.
- j) Mask water reflection, clouds, birds and small animals.

F Non Motion Detection (NMD) Capabilities

- (i) Specific NMD features are:
 - a) Detect an object as small as the end user can identify on the monitoring screen.
 - b) Generate an alert when an object stopped in a defined Detection Region within a camera field-of-view.
 - c) Ignore changes in background conditions.
 - d) Should be able to detect the shape and color of a vehicle.
 - e) Compensate for camera shake and minor camera movement.
 - f) Handoff PTZ camera for close up object interrogation.
 - g) Define unlimited Number of detection regions per camera.
 - h) Operate in scenes with people and object movement
 - i) Filter out noise caused from moving foliage, snow, rain, wet conditions, shadows cast by objects, water reflection, or any other clouds, birds and small animals.
 - j) Unattended Object - VIS shall have the capability to detect an object that is left unattended in a pre-defined area. For example, a bag or suitcase left on the street by a passenger entering a cruise terminal or train station.
 - k) Removed Object Detection - VIS shall have the capability to detect a missing object using the full camera view when the object is pre-defined to be protected.
 - l) Illegal Parking - VIS shall have the capability to detect any vehicle in a pre-defined Detection Region that has stopped and has not started moving again within a pre-defined amount of time.

- m) Specific NMD features are:
 - a. Detect an object as small as the end user can identify on the monitoring screen.
 - b. Generate an alert when an object stopped in a defined Detection Region within a camera field-of-view.
 - c. Ignore changes in background conditions.
 - d. Compensate for camera shake and minor camera movement.
 - e. Handoff PTZ camera for close up object interrogation.
 - f. Define unlimited Number of detection regions per camera.
 - g. Operate in scenes with people and object movement
 - h. Filter out noise caused from moving foliage, snow, rain, wet conditions, shadows cast by objects, water reflection, or any other clouds, birds and small animals.
- n) Crowd Detection
 - a. The VIS shall have the capability of performing Crowd detection behaviour. This shall be done by applying a behavioural profile, to locate crowded objects in the camera field-of-view, and a situation policy to generate an alert notification when the occupancy rate exceeds an end user-defined limit within in a Detection Region.
- o) Human Tailgating

The VIS shall have the capability of detecting Human Tailgating (Piggybacking), which is the detection of two or more humans crossing a virtual line within the camera view one after the other within in a pre-defined time, human tracking is to include any type of human movement such as running or walking within a camera view range and is to detect and track each human individually, even if multiple humans pass through the access door at the same time. Access gate/turnstile digital input might be defined to activate the Tailgating Rule.
- p) Vehicle Tailgating

The VIS shall have the capability to detect Vehicle Tailgating, which is the detection of two or more vehicles crossing a virtual line within the camera view one after the other within in a pre-defined time. Vehicle tracking includes any type of vehicle movement, including stopping, within a camera view range. The VIS shall

be able to track each vehicle individually in order to detect tailgating, even if multiple vehicles pass through the access gate at the same time. Access gate/arm digital input might be defined to activate the Tailgating Rule.

q) Loitering

The VIS shall have the capability to detect Loitering Rule Type, which is the detection of people remaining within the Detection Region according to user-defined rules for loitering time. Loitering can include any type of human movement such as running or walking within a loitering range by at least one human in the camera view. The VIS software detects and tracks each human individually in a scene of multiple humans (people).

r) Grouping

The VIS shall have the capability to detect Grouping Rule Type, which is the detection of people entering a Detection Region above a user-defined figure. Grouping is to include any type of human movement such as running or walking within a grouping range by at least one human in the camera view. The VIS software detects and tracks each human individually within a scene of multiple people (humans).

s) Digital Sensor Interface

- a. The VIS shall have the capability to provide the ability to interface with other sensors, such as motion detectors, smoke detectors, electronic fence; specific type or any digital sensor.
- b. The VIS shall have the capability to manage the sensor alarm condition and activate and deactivate detection rules upon inputs from digital sensors.

t) NVMS Software should have

- c. Object counting
- d. Perimeter Intrusion Detection
- e. Object Speed Calculation
- f. Automatic Zoom & Tracking
- g. Pre and Post Event Recording
- h. Hearbeat images
- i. Latest Motion Detection technology
- j. Image Enhancement feature to enhances the images taken from CCTV cameras in poor conditions (like fog, rain etc.)

- k. Provides auto-tracking - the camera can move to follow movement through a monitored area
- l. Built-in loop play feature, to continuously loop the most recent activity
- m. Software provides remote interface with a full live feed view, with digital zoom options, control of PTZ cameras, multiple simultaneous feeds, and image quality settings to improve performance through bandwidth reduction
- n. Load Balance to dynamically adjust the Update Rate on the camera to give more frames per second when motion is detected, and lower frames per second when there is no motion. Recorded images affected by poor weather conditions are mathematically enhanced during playback. Upon image enhancement, Original image should remain unaltered for evidence integrity.
- o. Each camera setting can be adjusted individually according to client's requirement
- p. Schedule operation - All cameras can be fully scheduled individually
- q. View and record multiple cameras
- r. As many playback sessions as are required can be displayed at once
- s. Automatic control of supported PTZ cameras
- t. Alerting by audio alert, email (with images)
- u. Built around a modular system of components
- v. Because of its modular design, system not limited to one type of device - can mix devices as required
- w. Console uses a wide range of camera devices including analogue cameras
- x. PTZ (Pan, Tilt & Zoom) cameras provides auto-tracking -the camera can move to follow movement through a monitored area
- y. Archiving automatically ensures you retain the right amount footage, image integrity checking ensures your footage isn't tampered with, and feed management allows you to precisely control the storage of images per camera feed
- z. Software has built in feature to bring camera observation to mobile devices (require a software on a mobile device to view)

- aa. Software has image integrity checking to ensure the footage isn't tampered with
- bb. Software should be able to store centrally or from respective Police stations/local control rooms/traffic control room as per customization
- cc. Software should have the option to include mimic map to identify camera locations and identify respective alerts.

G Existing and Future Cameras

The VIS shall be scalable and able to be configured to manage and control numerous additional existing analog or digital PTZ and fixed cameras at a future time.

H Event Response, Notification and Messaging

1. The VIS software shall have the capability to provide automatic and immediate notification of end user-defined threats. Notifications are transmitted over the user's local area network (LAN) or wide area network (WAN) as XML messages sent between video processing units (VPUs) and the central VIS server. The VIS server shall also have the capability to provide alerts that can be displayed on the clients software connected to the VIS server over the user's network. Alarms are displayed through the specified CCTV system.
2. The VIS system shall have the capability of providing real time alerts upon detection of each behavior programmed for monitoring. Alerts are displayed via a viewing station connected to the server.
3. when a behavior is detected, and display at least the following information:
 1. Location and Name of the camera.
 2. Date and Time of detection.
 3. Rule activates an Event.
 4. Frozen Image in a separate window.
4. The VIS software shall provide the option to activate external Digital Output when an Event has occurred.
5. When defining Detection Rules and Actions, the end user interface shall assign each one to a Rule schedule to include a time of day and day of week calendar to specify when alerts must be activated and deactivated. Schedules shall be re-usable across multiple event/response definitions. Each camera shall have an unlimited number of Rules that can be activated either in different schedules or simultaneously.

A Configuration, Setup and Video Management

- a) The VIS shall have the capability of being controlled by a graphical user interface (GUI). The GUI shall employ one or more wizards to walk the administrator/installer through each step of the process of adding a camera and defining the events and response actions for each camera view.

- b) The end-user shall have the capability of performing all management and monitoring functions from any computer connected to the network.
- c) The VIS shall provide measures for securing operational access to and administrative permissions for three different user levels:
 - (i) User - no programmability generally can view and acknowledge alerts.
 - (ii) Supervisor - limited programmability has more rights to perform various system changes.
 - (iii) Administrator - full programmability, has full rights to change the system in any way and to control user access to system configuration functions.
 - (iv) The VIS shall provide monitoring capabilities for detecting and reporting if any camera is not providing an image and/or a good quality image because of:
 - (v) No-video - triggers an alarm when the video signal is disconnected.

B Scalability and Redundancy

- a) The VIS shall be a server-client based system.
- b) The user shall be able to scale the system to support an additional unlimited number of cameras by adding additional servers to the network. This procedure does not require any system down time.

C VMS Description

- b) The VMS shall be a software product that is Microsoft Windows-compatible and shall provide the following capabilities:
- c) Designed to serve as an video management and network video recorder solution for managing endless number of live and recorded video streams by a large number of clients, the VMS should be integrated with many vendors of video servers, IP cameras, Analog cameras and Video Content Analytic providers.
- d) Provide endless number of layout and PTZ presets (according to H/W limitations)
- e) Provide virtual and Joystick control of PTZ cameras.
- f) Provide multi screens and video wall support to enable monitoring.
- g) Support net secured architecture - system architecture allow many far away clients to connect through one standard port in the firewall.
- h) The VMS Runs on computer networks using industry-standard equipment.
- i) Allows connectivity to many third party systems e.g. fence systems, burglar alarm or fire detection systems. The VMS provides a virtual I/O device to connect any third party system that can send or receive data according to the supplied VMS protocol.

D Operational Environment

- a) The VMS shall have the capability of operating in an environment that requires multi-tasking, when using multiple cameras and devices spread over a wide area.; input one or more alerts based on user-defined criteria, device and related video stream; determine preferential escalation implementations and responses allowing layout & map & video channel & PTZ preset & output activations accordingly; and immediately assess response actions for viability such as start recording multiple video channels, send an email with snapshot or clip of a specific channel.
- b) The VMS shall include network-capable web services and multi system control center for monitoring many independent sites simultaneously which shall be programmed and monitored by any permitted VMS client running on a workstation.
- c) The VMS SW Installer shall be provided to the customer from the manufacturer's web-site. The installer shall also include all documentation and manuals as well as On-Line Help for each application. Version updates shall not affect the system setting and can be performed from any workstation, for all applications. The Installation documentation is downloaded as separate files enabling the end-user to use them during the installation process.

E VMS Performance and Operational Requirements

- a. Video Standards and Formats
 - i. VMS shall have the capability of accepting analog (NTSC and PAL) video signals and a range of digital video compression video stream including M-JPEG, MPEG-4 and H.264.
 - ii. Each VMS recording server shall manage up to 64 video channels
 - iii. VMS shall have bandwidth managed from 9.6Kbps - 8Mbps per channel
 - iv. Each VMS system server shall manage up to 512 recording servers.
 - v. VMS shall have the capability of providing video processing for CIF resolution (320x240 for NTSC, 352x288 for PAL) at up to 30 FPS, with the capability for high resolutions, including 4CIF resolution at up to 30 FPS, when suitable hardware is made available. If required, mega-pixel and high-definition (HD) cameras can be connected to the system on request.
- b. Recording & Playback
 - i. VMS shall support Manual recording in the client work stations of every channel, continues recording, event recordings according to any event input in the system and scheduled recording by predefined user timing.
 - ii. VMS shall support multi drives management.
 - iii. VMS shall enable Instant playback from the live video window of up to 10mn before the current time.
 - iv. Video recording search shall be defined by either channel or/and time and date or/and VMD

- v. VMS shall support standard Microsoft storage technology for archiving.
 - vi. VMS shall support remote storage in order to secure the archived data and for storage scalability.
 - vii. VMS shall support local storage for bandwidth utilization
 - viii. VMS shall support Audio recordings simultaneously to the video recordings.
- F Logging and Reporting:**
VMS shall support System log of integral self diagnostic alarm and event.
- G User Management:**
- a. User database with login, password and contact details
 - b. User profiles with configurable permissions and access settings.
- H Display:**
- a. VMS shall support virtual matrix based on standard PC for video wall display.
 - b. VMS shall support drag and drop functionality from and to the operator main screen, video wall and maps.
 - c. VMS shall enable user defined customized layouts that include specific video channels, map and picture support and I/O display.
 - d. VMS shall support endless user configurable split screen modes (presets) including matrix layouts, video channels, with pre-configured connections.
- I Export:**
- a. VMS shall support video export to all type of video formats - to be played including any Windows Media Player, with no software installation as a prerequisite.
 - b. VMS shall support video export to Native format - original recorded stream to be played with a standalone player application with no software installation as a prerequisite
 - c. Video and still images should be allowed to be copied on a CD/DVD
- J Alarm**
- a. Alert Settings should allow to control how it alerts when motion is detected.
 - b. Audio Alerts - to allow to choose a .wav file to play when motion is detected.
 - c. Windows Messages - to allow to send a Windows NET SEND message to a user, a machine, or group of machines.
 - d. SMS Alerts - to send an SMS text message to a person or persons.
 - e. Email Alerts - to allows to email a person, or groups of people when motion occurs. The software should allow to attach a number of images to the email. Minimum time between emails can be set to ensure that during periods of continuous motion, emails are not being sent continually.
 - f. FTP/Web Page generation allow to save or upload a web page containing the images captured upon a trigger.
 - g. Admin alerts

3.3.1.6 Automatic License Plate Recognition System

- I. The ANPR System shall enable monitoring of vehicle flow at entry/exit and at strategic locations. The system shall support real-time detection of vehicles approaching the deployed locations, processing the camera feed, recording each four wheeler, reading its number plate, database lookup from central server and triggering of alarms/alerts based on the vehicle status and category as specified by the database.
- II. The system design should be based on open architecture and should have unrestricted scope for scalability and integration with similar surveillance systems in use or likely to be used by the employer. The system usage shall be privilege driven using password authentication.
- III. The ANPR System shall have the following in built features:
 1. Vehicle Detection and Video Capture Module
 - a. The System should automatically detect a vehicle approaching the installed location by means of inductive loop sensor.
 - b. On detection of vehicle approach, the system would activate the license plate video capture cameras.
 2. License Plate Detection
 - a. The System shall automatically detect the license plate in the captured video feed in real-time.
 - b. The system shall perform OCR (optical character recognition) of the license plate characters (English alpha-numeric characters in standard fonts).
 - c. The System shall store JPEG image of vehicle and license plate and enter the license plate number into PostgreSQL database along with date timestamp and site location details.
 - d. System should be able to detect and recognize the English alpha numeric License plate in all standard fonts and formats of all four wheelers including cars, HCV, LCV.
 - e. Apart from printed license plates, the system should also be able to perform recognition on hand painted straight font alpha numeric number plates in standard formats found in Indian license plates.
 - f. The system processing should be real time i.e the recognition of license number plates will happen instantaneously (within less than a second delay).
 - g. The system should be able to process and read number plates of vehicles with speed even up to 40km/hr.
 - h. The system shall be robust to variation in License Plates in terms of font, size, contrast and color and should work with good accuracy.
 - i. The system should store video clip of the vehicle approaching and leaving the location.
 3. Vehicle Status Alarm
 - a. On successful recognition of the number plate, system should be able to generate automatic alarm to alert the control room for vehicles which have been marked as “Wanted”, “Suspicious”, “Stolen”, “Expired” [system should have provision/expansion option to add more categories for future need].

- b. The instantaneous and automatic generation of alarms should afford ample opportunity to the customer to manually deploy a suitable barrier which will prevent the escape of such vehicles.
 - c. System shall have to be integrated with a boom barrier gate on site, if required by the employer.
4. Vehicle Log
- a. The system shall enable easy and quick retrieval of snapshots, video and other data for post incident analysis and investigations.
 - b. The system should be able to generate suitable MIS reports that will provide meaningful data and facilitate optimum utilization of resources, such as:
 - i. Total Vehicles registered.
 - ii. Total Vehicles not registered.
 - c. The system shall have search option to tune the reports based on license plate number, date and time, site location as per the need.
 - d. The system shall have option to save customized reports for subsequent use.
 - e. The system should provide advanced and smart searching facility of License Plates from the database. There should be an option of searching number plates almost matching with the specific number entered (up to 1 and 2 character distance).
5. Vehicle Category Editor
- a. The system should have option to input certain license plates according to category like “Wanted”, “Suspicious”, “Stolen”, “Expired”, etc by authorized personnel.
 - b. The system should have option to add new category by authorized personnel.
 - c. The system should have option to update vehicle status in specific category by authorized personnel. i.e. on retrieval of stolen vehicle, system entry should be changed from “Stolen” to “Retrieved”.
 - d. System should have option to specify maximum time to retain vehicle records in specific categories.
6. System Settings
- a. System should provide an option for advanced users to tune the system parameters according to the requirement (lighting conditions, minimum LP size , etc)
 - b. System should have option to configure site locations and data management settings.
7. Central Management
- a. The Central Management Module shall run on the ANPRS Central Server in control booth.
 - b. System should have ability to perform remote management from control booth, including
 - i. Vehicle Category Editor
 - ii. Vehicle Log Module
 - iii. Password Management
8. The Hardware specification for the ANPRS should be equal or better than the requirement indicated below.
- a. Camera Specs
 - i. IP camera: 1 megapixel or above, Power over Ethernet

- ii. HDTV 720p resolution or above
- iii. Day night operation: Automatic removable IR cut filter
- iv. Shutter Control : Manual adjustable : 1/1000 and above
- v. Varifocal lens, auto-iris control, remote focus
- vi. Simultaneous H.264 and MJPEG streams
- vii. Maximum Frame-rate: 30 fps or above
- viii. Two-way audio

- b. Illuminator
 - i. Type: Visible light illuminator/IR illuminator
 - ii. Illumination Range: 15 to 20 feet
 - iii. Environment Protection: IP65

- c. Camera Housing
 - i. IP 65 Rated Environment Protection Housing

- d. Control Console

There shall be two control console installed in two separate Control Booths available at both sides of the approach road. The control console shall be operator programmable to control any or group or all the lanes. Each control console shall have:

 - i. Pentium Core 2 Duo 2.3 GHz or better
 - ii. 2 GB DDR RAM
 - iii. Storage Capacity: 500 GB
 - iv. 19 inch LCD monitor
 - v. Network Adapter (NIC). 100 / 1000 baseT
 - vi. Operating System: Linux
 - vii. Key Board
 - viii. Graphic Accelerator and sound card.

- 9. System Performance
 - a. The system should work in both day and night conditions with good accuracy.
 - b. The system should have a minimum 95% plus vehicle plate detection accuracy.
 - c. The system should have an accuracy of at least 70% vehicle number plate recognition capability for printed license plates in standard format and fonts (both day and night time).

3.3.1.7 Wireless

Radio and Modem should be complied to IEEE (802.16d) standard OR 802.16 EQUIVALENT compatible	
Frequency 1.5 or 4.9 or 5.xGHz	To be provide later on
Type Approval	FCC, ETSI or Universal subject to sub-band
Media Access	Time Division Duplex (TDD)
Channel Bandwidth	5 MHz / 10 MHz / 20 Mhz
Max output power (at antenna port)	Base Station: - 10 dBm to 22 dBm or better, 1 dB steps
	CPE:- 10 dBm to 20 dBm or better, automatically adjusted by ATPC

Radio Technology	Orthogonal Frequency Division Multiplexing (OFDM) / Time Division Multiple Access (TDMA)
Modulation Scheme	2L-FSK/4L-FSL/BPSK/QPSK/16-QAM/64-QAM Should support automatic adaptive modulation, separated per CPE per direction for maximum performances.
Architecture	Completely outdoor management devices Minimum 6 per chassis, independent of frequencies/domains Integrated / External. For External Antennae: 60 deg., 90 deg., 120 deg, and 360 deg. Antenna options. Single / Multiple Cat-5 cable between indoor units and outdoor radio
Power supply	AC and DC options and power redundancy for the chassis
	Out door unit should support up to standard -48V DC.
Transmit power control	Automatic transmit power control (ATPC)
Synchronisation	TDD synchronization with GPS clocking
Interference Mitigation	System must support C/I ratio \approx 3dB
Built in spectrum analyzer mode	The solution should include a spectrum analyzer built in that can be turned on form remote for providing information on interferences and for automatically selecting the a channel with low interferences
Capacity and performance	
Sensitivity	Better than -77 bDm @ 5/10/ 20 MHz Channel width
Throughput	60Mbps user bit rate Per BTS Capacity should not be reduced when using the built in encryption
Voice capacity	50 calls per sector with minimum Mean Opinion Score (MOS) 4.0
Packet per second (PPS)	40,000 packets per second per AU and SU radios
Distance coverage	15 km with external antenna (FCC/Universal domains)
Max packet size	Minimum 1KB for supporting MPLS and 802.1Q
Max number of CPEs per base station	Minimum 500 CPEs (minimum 120 when using data encryption)
Qos for Voice and Data Communication	
VLAN Support	Based on IEEE 802.1Q
Layer 2 traffic prioritization	Based on IEEE 802.1P
Layer 3 traffic prioritization	IP Tos according to RFC 791 and DSCP according to RFC 2474
Layer 4 traffic prioritization	UDP/TCP port range The solution has to support End to End over the air prioritization of VoIP over best effort data. The solution has to support call admission control for VoIP calls - for ensuring QoS of calls
Security	DES / AES authentication, built in encryption The solution has to have FIPS-197 encryption certification

	The solution has to include denied/allowed access list for SU from time to time
	The solution must include CPE-to-CPE relay options, separate for unicast, multicast and broadcast types of traffic, for controlling peer-to-peer traffic
	The solution has to include multicast and broadcast traffic limiters at any OSI layer for reducing risks of viruses/worms from attacking the network.
Standards Compliance	
Safety	UL/CUL (UL60950)
	CE/CB (EN60950)
Radio	FCC Part 15E 15.407
	EN 301 893
	EN 301 753
	EN 301 021
EMC	CE Class B (EN55022)
	FCC Class B Part 15
Hazardous Substances	RoHS Complaint
Environmental	
Operation	ETS 300 019 part 2-3 class 3.2E for indoor units
	ETS 300 019 part 3-4 class 4.1E for outdoor units
Storage	ETS 300 019-2-1 class 1.2E
Operation Temperature	-33 ^o C to 60 ^o C
	Outdoor PoE Adapter: -33 ^o C to 60 ^o C
Operating Humidity	5% to 95%, non-condensing
Weather proofing	IP 55/ 66/ 67

(a) Customer Premises Equipment

Specifications (CPE)	
Radio and Modem Based on IEEE802.16-2004(d) or 802.16 Equivalent Compatible	
Frequency	1.5GHz or 4.9GHZ or 5.xGHz
Type Approval	FCC, ETSI or Universal
Media Access	Time Division Duplex (TDD)
Channel Bandwidth	5 MHz / 10MHz / 20MHz
Max output power (at antenna port) (in some domains actual power may be limited by regulation)	Base Station: - 10 dBm to 22 dBm or better, 1 dB steps
	CPE:- 10 dBm to 20 dBm or better, automatically adjusted by ATPC
Radio Technology	Orthogonal Frequency Division Multiplexing (OFDM) / Time Division Multiple Access (TDMA)
Modulation Scheme	2L-FSK/ 4L-FSK/ BPSK/ QPSK/ 16-QAM / 64-QAM
Channel Bandwidth	5 MHz / 10MHz / 20MHz
Max Throughput	15Mbps (FTP)
	Should support automatic adaptive modulation, separated per CPE per direction for maximum performances
Architecture	Outdoor Radio Unit (ODU) to support indoor installation via cat-5 cable
	Has also support all outdoor installation when

	needed
	Radios to support IP for voice / Video/ Data
Power supply	110/220 VAC and 12/24VDC
	Out door unit should support standard -48V DC.
Transmit power control	Automatic transmit power control (ATPC)
LED's mode	10 LEDs SNR bar on outdoor radio unit for antenna alignment
Spectrum analyzer	Build in spectrum analyzer mode for remote reading noise information.
Traffic management	Guaranteed & Maximum Information Rate per CPE per direction with graceful degradations
Antenna	
Port Type	N-type 50 Ohm
	120°: 15dBi, Sector 120° horizontal, 6° vertical; Equivalent specs for 60° / 90° /180° /360°
	Must support H or V polarization installation options
	Flat panel
	Option for high gain external antenna / reflector when needed
Capacity and performance	
Max throughput	15 Mbps user bit rates
Packet per second (PPS)	40,000 packets per second per radio
Distance coverage	15 km with external antenna (FCC and universal regulations)
Max packet size	Minimum 1 KB for supporting MPLS
Standards Compliance	
Safety	UL/CUL (UL60950)
	CE/CB (EN60950)
Radio	FCC Part 15E 15.407
	EN 301 893
	EN 301 753
	EN 301 021
EMC	CE Class B (EN55022)
	FCC Class B Part 15
Hazardous Substances	RoHS Complaint
Environmental	
Operation	ETS 300 019 part 2-3 class 3.2E for indoor units
	ETS 300 019 part 3-4 class 4.1E for outdoor units
Storage	ETS 300 019-2-1 class 1.2E
Operation Temperature	Outdoor Unit:- -33°C to 60°C
	Outdoor PoE Adapter: -33°C to 60°C
Operating Humidity	5% to 95%, non-condensing
Weather proofing	IP 55/66/67
Hazardous Substances	RoHS Complaint
Configuration and Management	
Local and remote management	Monitor via Telnet, SNMP and configuration upload/download
Remote management access	From wired LAN, wireless link
Management access protection	Multilevel password
	Configuration of remote direction (from Ethernet only, wireless only or both sides)

	Configuration of IP addresses of authorized stations
Config File Upload/Download	FTP/TFTP
Software Upgrade	SW Download using FTP/TFTP
SNMP agents	SNMP v1/2/3 client, MIB, Bridge MIB

(b) Customer Premises Equipment

Specifications (CPE) based on IEEE 802.16d (2004) standard or 802.16 Equivalent Compatible		
Radio and Modem		
Frequency	1.5or 4.9or 5.xGHz	
Type Approval	FCC, ETSI or Universal subject to sub-band	
Channel Bandwidth	5/ 10/ 20 MHz	
Port Antenna	20dBm/25dbm	
Modulation Scheme	BFSK/QFSK/BPSK/QPSK/ 16-QAM/64-QAM	
Antenna	Type	Integrated/External
	Gain	17/26 dBi
	Radiation BW	10 ⁰ (H/V)
	Standards	Standard FCC and CE Compliance
Power	Supply	AC, 100-240 VAC-5 Cable upto 90m
	Consumption	25W
	Outdoor feed	Shielded CAT-5 cable upto 100m
Capacity and performance		
Sensitivity	Better than -77 bDm @ 5/10/20MHz Channel width	
Throughput	15 Mbps	
Distance coverage	15 km with external antenna (FCC/Universal domains)	
Standards Compliance		
VLAN Support	Based ib 802.1q	
Standards	IEEE 802.16-2004 (WINAX)/Equivalent Compatible	
Security	DES/AES	
	ESSID Association Protocol/Hardware Add based Protocol	
	IP level filtering for addresses & protocols	
	IP Restricted Management Access	
Safety	UL 60950-1	
	EN 60950-1	
Standards Compliance Continued		
Radio	FCC Part 15.247	
	EN 301 893 (1.3.1)	
	EN 301 753	

	EN 300 308
	EN 300-440 ½
EMC	EN 301 489
	FCC Part 15 Class B
Lightning Protection	EN 61000-4-5 (2KV)
Environmental	
Operation	ETS 300 019 part 2-3 class 3.2E for indoor units
	ETS 300 019 part 2-4 class 4.1E for outdoor units
Storage	ETS 300 019-2-1 class 1.2E
Operating Temperature	-40°C to +55°C
Operating Humidity	5% to 95%, non-condensing

The user should be able to scale the system to support an additional unlimited number of cameras by adding additional recording servers to the network. This procedure should not require any system down time.

* * * * *

Section 4
Eligibility criteria for Bidders

4. Eligibility Criteria

The Bidder: Bidder should have the capability to implement projects in terms of geographical spread, industry experience, requisite manpower of required qualification and experience, project management skills and quality/level of work. Bidder should have a proven record in implementing IP CCTV system integration projects in similar outdoor conditions. The bidder should have reasonable long-standing relationship with active and passive component manufacturer, which they are proposing and these should have been deployed by the bidder in such IP based Networks elsewhere.

4.1 Bidders general qualification

- (i) This RFP is open to all firms/companies both from within and outside India, who are eligible to do business in India under relevant Indian laws as in force at the time of bidding.
- (ii) Firm/company declared by GoH to be ineligible to participate for corrupt, fraudulent or any other unethical business practices shall not be eligible during the period for which such ineligibility is declared.
- (iii) Breach of general or specific instructions for bidding, general and special conditions of contract with GoH may attract a proceeding to declare a firm/company ineligible for a certain period or certain number of consecutive tender calls.

4.2 Minimum eligibility criteria

- (i) The bidding firm/company must be a registered company under the Companies Act 1956.
- (ii) The bidding firm/company must be having valid ISO 9001 certification at the time of bidding.
- (iii) The bidding company must be a Networking & System Integration company and must be in Networking & System Integration business for the last three years
- (iv) The bidding firm/company must comprise a single company and consortiums are not permitted to bid.
- (v) The Turn over of the bidding firm/company must be minimum Rs. 10 crores (Rs. Ten Crores) in the last financial year with a consolidated Turn over of Rs. 25 Crores (Rs. Twenty Five crores) for the last three preceding years. This must be bidding company's turn over and not that of any group of companies. A copy of last three financial years relevant Balance Sheets i.e 2007-08,2008-09 and 2009-10 should be submitted with the office.

- (vi) The bidding firm/company have made profits as per the audited balance sheets in the last three financial years and should be in sound financial position as judged by the Evaluation Committee for this purpose.
- (vii) The bidding firm/company or their technology partner/OEM must have successfully implemented CCTV Networking projects as under in the last three years. The satisfactory reports from the said customers including copies such purchase orders including technical as well as commercial aspects are to be enclosed with the Pre-Qualification.

One outdoor IP CCTV project of 50 nos. of Nodes/Two outdoor projects of 25 Nodes spread across multiple locations in a city environment

- (viii) The bidding firm/company should have at least 20 nos. of qualified manpower on its roll for integration of such projects related services.
- (ix) The bidding firm/company must be authorized to bid on behalf of the manufacturer and should submit an upto date valid authorization letter till the currency of the contract from original manufacturers for such equipment and its accessories, which are not manufactured by them and supplied under this RFP.
- (x) The Original Equipment Manufacturers (OEM) of the critical equipments like camera hardware, servers, software cabling etc should have ISO international quality certification for manufacturing these products. The Bidder shall attach the copy of the OEM's ISO Certificate along with the bid.
- (xi) The bidding company must have signed an agreement with OEM for such equipment and its accessories for providing the technical support including spares for the period of contract i.e. five years after the completion of the final acceptance test. The copy of such agreement(s) to be attached with pre qualification bid.
- (xii) The bidding firm/company should have support centers in Haryana/Chandigarh/Delhi or in case bidding firm/company does not have support center in Haryana/Chandigarh/Delhi, bidder should set up the support centers within a month in case the contract is awarded to it and the same should be functional till the period of performance warranty/support and project Management of the sites to be connected which ever is later. The bidder will submit an undertaking in this regard along with the Bid.

- (xiii) The bidding company/firm must certify that the Technology quoted is State of the art and latest.
- (xiv) The design/solution provided by the bidder for the project must be in accordance to the policies/regulations applicable to such networks as laid by Govt. of India or its agencies.

Documentary evidence in support of all the above mentioned eligibility criteria should be furnished with pre qualification bid.

Important Note: Hartron reserves the right to amend any/all the above eligibility criteria depending upon the out come of the pre-bid conference to ensure fair play and competition in the bid process. Any such changes will be notified in writing to all those who have purchased this document.

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Section-5

Bidding Process & Procedure of Submission of Bids

5. Bidding Process

5.1 Advice to the bidders

Bidders are advised to study this RFP document carefully before participating. It shall be deemed that submission of Bid by the bidder have been done after their careful study and examination of the RFP document with full understanding to its implications. Any clarifications/resolutions of the doubts must be sought at or before the pre-bid conference.

5.2 Sale of bid document

- (i) A complete set of this RFP document can be purchased from Haryana State Electronics Development Corporation, S.C.O. 111-113, Sector 17-B, Chandigarh - 160017 by the bidders in person against a non-refundable amount of Rs. 5000/- through Demand Draft/Bankers Pay Order from a scheduled bank, drawn in favour of “Haryana State Electronics Development Corporation Limited, payable at Chandigarh The complete set of this RFP document is also available on our website www.hartron.org. However, the said document is only for information purpose. The bidders are required to purchase the said document so as to participate in this project.
- (ii) Bids not submitted in prescribed form will be rejected.
- (iii) RFP document will be sold from 11.30 am to 4.00 pm on all working days starting from 11.05.11 till 03.06.11.

5.3 Validity of the bid

The bid should be valid for 180 days from the opening of the Commercial bid OR 12 Months from the last date of submission of bid, whichever is later.

5.4 Transferability of the RFP document

This RFP document is non-transferable.

5.5 Misplacement of the RFP document

HARTRON shall not be responsible for any postal delay about non-receipt / non-delivery of the documents.

5.6 Pre bid discussions, place, time and date:

Haryana State Electronics Development Corporation Limited,
S.C.O. 111-113, Sector 17B,
Chandigarh - 160017.
At 12.30 PM on 19.05.11

5.7 Address at which the bids are to be submitted:

Haryana State Electronics Development Corporation Limited,
S.C.O. 111-113, Sector 17 B,

Chandigarh - 160017

Phone - (0172) - 2704922, 2710743, 2714302 Fax - 2720113

5.8 Last time and date for receipt of bid :

Upto 2.30 pm on 06.06.11

5.9 Place, time and date of opening of pre-qualification bid:

Haryana State Electronics Development Corporation Limited,
S.C.O. 111-113, Sector 17 B,
Chandigarh - 160017

At 3.00 pm on 06.06.11

5.10 Earnest money deposit (EMD)

All bids must be accompanied by an earnest money of Rs. 2,00,000/- (Rs. Two Lacs only) in the form of Demand draft from a scheduled bank in India and shall be valid for at least six months, in favour of 'Haryana State Electronics Development Corporation Limited' payable at Chandigarh. No interest shall be paid on the earnest money under any circumstances. Bids without earnest money shall be summarily rejected.

5.11 Pre-bid conference

- (i) A pre-bid conference (PBC) shall be held as per clause no.5.6. In this PBC, tenderer would address the clarifications sought by the bidders with regard to the RFP document and the project. The bidders would be required to submit their queries to the tenderer in writing at least 5 (five) days prior to the PBC. Queries not submitted within this deadline may not be taken up at the PBC.
- (ii) Bidders that having purchased the RFP document till the date of PBC shall only be allowed attend the PBC, even if they do not have any specific queries. These bidders would be required to register for the PBC at HARTRON. No clarifications to any query after the PBC shall be entertained.
- (iii) Tenderer will entertain queries of and clarifications sought by only those companies who have purchased this RFP document.
- (iv) Tenderer reserves the right not to respond to any/all queries raised or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it. The minutes of the PBC shall be circulated by tenderer to all those companies who have purchased this RFP document. Nothing in clause no. 5.11 above shall be taken or read as compelling or requiring tenderer to respond to any question or to provide any clarification. No extension to any deadline referred to in this document will be granted on the basis or

grounds that tenderer should respond to any queries to provide any clarification.

5.12 Procedure for Submission of the Bid

Sealed offers prepared in accordance with the procedures enumerated below should be submitted to HARTRON, Chandigarh on or before the last date and time 06.06.11 upto 2:30 p.m. The bidder should submit their bids in three parts i.e. Pre-qualification Bid, Technical Bid and Commercial Bid. All bids sealed individually should be kept in a separate sealed cover super scribed with separate titles as specified below:-

- a) “Pre-qualification Bid for outdoor surveillance for Yamuna Nagar & Sonipat.”
- b) “Technical Bid for outdoor surveillance for Yamuna Nagar & Sonipat.”
- c) “Commercial Bid for outdoor surveillance for Yamuna Nagar & Sonipat”
- d) The bidders should submit sealed original Pre-qualification and technical bid. The bidder shall submit two sealed copies of commercial bids, with the title mentioned as “Original commercial bid and Copy of the commercial bid”. The each bid should be in properly bound form with all pages numbered and indexed. The language of the bid and all documents related to the bid must be written in English language. If any document is in language other than English, then the bidder is required to enclose a self attested translated English version of such documents.
- e) The bidder shall also submit the soft copy of Pre-qualification, technical and commercial bids on separate CDs/pen drive in Microsoft Word or pdf format duly packed in the respective envelopes.
- f) All the documents viz. Pre-qualification Bid, Technical Bid and Commercial Bid prepared as above are to be kept in a single sealed cover super scribed with RFP Number, Due Date, Item and the wording “Do not Open Before 1500 hrs on 06.06.11”
- g) Late bids: The cover should also indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared “Late” by the evaluation committee.
- h) No bid will be considered unless and until each page of the bid document is duly signed by the authorized signatory.
- i) Prices should not be indicated in the Pre-qualification or Technical Bid.
- j) All the columns of the quotation form (Proforma 11 to 12) shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. Rates shall be both in the figures and words.

- k) It is mandatory for all bidders to quote F.O.R. destination prices inclusive of all taxes i.e. excise duty, freight, sales tax, octroi, insurance, customs, service tax, etc. Any change in excise duty, custom duty and service tax or any other levies/taxes announced by the Government of India during the currency of the contract, then the same shall be applicable on presentation of the proof during currency of the contract. No change in other duties including sales tax, custom duty effect due to devaluation of rupees shall be entertained.
- l) Price Bids determined to be substantially responsive will be checked by the evaluation committee for any errors. If there is a discrepancy between the quoted rate in figures and the quoted rate in words, the rate in words will take precedence. Arithmetic errors will be rectified on the following basis. If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate multiplied by quantity shall prevail and the total cost will be corrected unless in the opinion of the evaluation committee there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of various costs, the sum of the various costs shall prevail and the total bid amount will be corrected.
- m) The amount stated in the Form of Financial Bid will be adjusted by the evaluation committee in accordance with the above-mentioned point for the correction of errors and, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the EMD shall be forfeited.
- n) Any omission in filling the columns of “units” and “rate” or pertaining to the Taxes/levies, service tax as applicable etc., shall deemed to be treated as inclusive in the total project cost.
- o) All corrections must be duly signed by the Bidder.

5.13 Documents comprising the bids

The bids prepared by the bidders according to the procedure mentioned at clause no. 5.12 should comprise of the following:-

5.13.1 Original bid proposal shall consist of the following:

- (i) Sealed envelope containing the draft of Earnest Money as mentioned at clause no. 5.10.

- (ii) The RFP document in original duly signed by the authorized signatory on each page acknowledging the terms of RFP.
- (iii) Sealed envelope containing the Pre-qualification Bid.
- (iv) Sealed envelope containing the Technical Bid.
- (v) Sealed envelope containing the Commercial Bid.

5.13.2 copy of Commercial bid proposal shall consist of the following:

- (i) Sealed envelope containing the copy of the Commercial Bid.

5.13.3 Pre-qualification bid shall consist of following :-

- (i) Bid proposal sheet duly filled in, signed and complete in all respects. (Proforma - 1).
- (ii) Particulars of the Bidder as per Proforma-2.
- (iii) Copy of audited balance sheets for the last three financial years i.e. 2009-10, 2008-09 and 2007-08.
- (iv) Copy of the valid ISO certificate of the bidder as well as OEMs.
- (v) List of 20 engineers on its roll at the time of bidding.
- (vi) Undertaking for the project management of the project (Proforma - 4).
- (vii) Undertaking with regard to the compliance of warranty for all the equipment and accessories as per the clause no.6.10.
- (viii) Undertaking to provide Warranty certificates of each and every equipment and its accessories effective from the date of successful completion and acceptance of final acceptance test as specified at clause no.6.16 and the period of warranty should be as per the clause no 6.10.
- (ix) Attested photocopies of documents to establish eligibility in terms of each eligibility criteria as mentioned at Section-4 of this document.
- (x) Attested Photo copies of completion certificate and award of order of all the projects handled, along-with the contact details of the clients, which includes Name of concern, address, name of contact person, designation, phone number(s), fax, mobile number, e-mail address(s), etc.
- (xi) An affidavit from the original equipment manufacturer (OEM) with regard to the authorization for items like active components, passive components, etc. that the bidder is representing them, and that the bidder's commitment shall be met in totality by them. In

case the bidder is other than the manufacturer, an agreement between them and the OEMs shall also required to enclosed along with the proposal for all active and passive components.

- (xii) Copy of the agreement signed between the bidder and the original manufacturer for providing the technical support during the implementation, commissioning and project management period for such components and their accessories supplied under the project.
- (xiii) Bidder shall provide an undertaking for providing the warranty certification of all active and passive components for 5 years and 20 years respectively as the case may be from the manufacturer of the equipment.
- (xiv) Complete details such as address, contact person/phone, fax, e-mail of branch offices as well as support centers in Haryana/Chandigarh/Delhi along with proof of after sale service facilities at these centers, in case such facilities are not available, then an undertaking to this effect as specified in clause no.(xiii) of 4.2 of this document.
- (xv) Manufacturers warranty as per Proforma 3.
- (xvi) Manufacturer authorization certificate proforma 6
- (xvii) Indemnification from proprietary & patent rights Proforma 7 & 8.
- (xviii) Declaration by bidder Proforma 13
- (xix) Check list Proforma 14

5.13.4 Technical bid shall consist of following

- (i) The bidder has to give comprehensive plan detailing project schedule, team structure, implementation methodology, training details, project and management of the project, etc. in technical bid and shall give an undertaking that the proposed network to be installed and commission shall be complete in all respect adhering to the requirements of this RFP. (Proforma 5)
- (ii) The bidders are required to submit with their offers, detailed technical literature of the systems offered to enable a clear understanding of various technical aspects.
- (iii) Bidder shall specify the brand name, make and technical specification of all the equipment and accessories quoted for this project (Proforma 9).

- (iv) An undertaking from the bidder to ensure the compliance with existing Govt. of India policies/regulations applicable to the such network/connectivity. (Proforma 5).
- (v) Plans for User Training as per clause no.2.4 of this document.
- (vi) Acceptance test plans
- (vii) An undertaking that after the expiry of the project management period, the bidder will handover the total system in running condition in accordance to the clause no.6.18,
- (viii) An undertaking from the bidder that he shall accordingly train the manpower of respective departments of Haryana Govt. as per the clause no. 2.4 of this document.
- (ix) Technical Deviation Proforma 10.
- (x) Check List Proforma 15

5.13.5 Commercial bid shall consist of the following

- (i) Bid prices duly filled, signed and complete as per the price schedule on the prescribed quotation form (Proforma 11 to 12).
- (ii) The bidder can quote, separately, for any other item, which the bidder may think is essential or may be required while executing the project, which is not included in the Section-3.
- (iii) Bidders shall quote year-wise annual maintenance contract (AMC) charges for three years with spares for taking up maintenance of all such equipments supplied under this project after the expiry of project management period/warranty period (Proforma-12).

5.14 Opening of bids and Procedure of evaluation

- (i) An evaluation committee will evaluate the bids i.e. Prequalification, technical and commercial. The Bids upon opening will be initially examined to determine whether they are complete, whether any computational errors have been made, and whether the bids are generally in order.
- (ii) The bidder shall designate minimum one person to represent the bidder in its dealing with tenderer in relation to the proposal submitted by the bidder. Tenderer will assume that the person(s) designated is authorized to perform all tasks, including, but not limited to, providing information and responding to enquiries on behalf of the company.
- (iii) Only Pre-qualification bid shall be opened on the day of opening of the bids at 3.00 p.m. on 06.06.11 (see clause no.5.9) in the presence of bidders'

representatives. The bidders' representatives who are present shall sign a register evidencing their attendance.

- (iv) Technical bid will be opened for those bidders whose bids shall meet all the prequalification criteria unconditionally as specified in clause no.5.13.3. The Place, date and time of the opening of the technical bid shall be notified separately.
- (v) Technical bid document shall be evaluated as per the following steps:
 - a) Preliminary Examination of Technical Bids: The technical bids will be examined to determine whether they are complete, whether the documents have been properly signed and whether the bids are generally in order. Any bids found to be non-responsive for any reason or not meeting the minimum levels of the performance or other criteria specified in the various sections of this RFP will be rejected and not included for further consideration.
 - b) Evaluation of Technical Bids: A detailed evaluation of the bids shall be carried out in order to determine whether the bidders are qualified and whether the technical aspects are substantially responsive to the requirements set forth in this RFP. Further, the documentation furnished by the bidder will be examined to see whether the qualifications and specific requirements mentioned in this document are fulfilled.
 - c) The tenderer may conduct clarification meetings with each or any Bidder to discuss any matters, technical or otherwise.
 - d) Any effort by the bidder to influence the tenderer in the process of evaluation of technical Bids, bid comparison or the tenderer's decisions on acceptance or rejection of bids may result in rejection of the bidder's bid.
 - e) The bidders will also be required to make a detailed presentation covering various aspects on technical parameters defined in this RFP for the said sites to be connected, services supports, maintainability, implementation schedule, upgradability and its integration with existing police WAN now integrated with Haryana SWAN.
 - f) The tenderer may also ask the bidders to arrange visits of officers to the network sites already established and claimed in the bid.

- (vi) Further, the scope of the evaluation committee also covers taking of any decision with regard to this RFP, execution/ implementation of the project including management period.
- (vii) No further discussion/interface will be held with the bidder whose bid has been technically disqualified/rejected.
- (viii) Financial bids of those bidders who satisfy the parameters laid out in the technical bid will only be opened. The place, date and time for the opening of the financial bids shall be announced separately.
- (ix) The bidder's names, the Bid Prices, the total amount of each bid, and such other details as the Tendering Authority may consider appropriate, will be announced and recorded by the Tenderer at the opening.
- (x) Tenderer shall draw up a matrix covering the following before deciding the successful bidder:
 - a) Financial status of the company
 - b) Compliance to RFP requirements
 - c) Experience in implementation of similar projects
 - d) Experience in management of similar projects
 - e) Project Implementation plan and schedule
 - f) Integration plan
 - g) Openness of the system for meeting future requirements
 - h) Local support infrastructure
 - i) Management and maintenance plan including spares
- (xi) Bidder shall perform all the obligations specified in accordance with the terms and conditions laid down in this RFP. Though formats for Technical bid and Commercial bids are given separately, bidder shall add his remarks and comments under "any other relevant matter. Notwithstanding the fact that the RFP is descriptive, if the bidder feels that the RFP is deficient in anyway in defining scope of supply, scope of services etc for successful implementation and facility management of the project for five years, bidder should include the same under "any other" with explanation in Technical Bid and price under relevant head in commercial bid, if there is any price implication for the inclusion, found essential for successful project implementation. Thus, Proposals received will be considered as an offer to satisfy the requirements of tenderer as described in this Request for Proposal and bidder shall be obligated to implement the project as per scope of work finalized by tenderer.

- (xii) All details provided by the Bidder should be specific to the requirements specified in this RFP. Detailed clarification may be provided by Bidder, if so desired by tenderer. The Bidder shall specify the responsibilities of tenderer, if any, other than already mentioned in the RFP, separately for the successful implementation of the project.

5.15 Criteria for rejection of bids

The bid(s) may be rejected if any one or more of the following conditions are not fulfilled:-

- (i) Bids not made in compliance with the procedure mentioned at clause no. 5.12.
- (ii) Failure on part of the bidder to provide appropriate information as required in the bid proposal or any additional information as requested by the tenderer, including any supporting document.
- (iii) Incomplete or conditional bids - bids that do not fulfill all or any of the conditions as specified in this RFP.
- (iv) Bids without earnest money deposit (refer Clause no.5.10).
- (v) If found to have a record of poor performance such as abandoning works, not properly completing the contract, inordinately delaying completion, being involved in litigation or financial failures, etc.
- (vi) Failed to provide clarifications related thereto, when sought.
- (vii) Applicants who are found to canvass, influence or attempt to influence in any manner the qualification or selection process, including without limitation, by offering bribes or other illegal gratification, shall be disqualified from the process at any stage.
- (viii) Validity of the bid not as per the clause No. 5.3 shall be considered as non-responsive and would be disqualified.
- (ix) The submission of more than one bid under different names by one bidder - If same is found at any stage, all the bids by that bidder will be rejected.
- (x) Material inconsistencies in the information submitted.
- (xi) Misrepresentations in the bid proposal or any supporting documentation.
- (xii) Bid proposal received after the last date and time specified at clause no.5.8.
- (xiii) Bids found in unsealed cover, unsigned bids, bids signed by unauthorized person and unsigned corrections in the bids.

- (xiv) The bid shall contain no erasures or overwriting except as necessary to correct errors made by the bidder, in which case such corrections shall be authenticated by the person or persons signing the bid.
- (xv) All pages of the bid must be signed and sequentially numbered by the bidder.
- (xvi) The decision of evaluation committee in this regard shall be final and binding on the bidders.
- (xvii) Bids not submitted on the prescribed Proformas enclosed with this RFP.

5.16 Acceptance of the bid

- (i) The valid bids received will be evaluated by the tenderer to ascertain the best, technical superior, commercially optimal bid in the interest of Haryana Police.
- (ii) Tenderer do not bind itself to accept the lowest or any bid and reserves the right to:
 - a) reject any or all bids with/without any reason;
 - b) accept/prefer any bid without assigning any reason.
- (iii) Tenderer reserves the right to appoint any consultant or consultants to help tenderer for evaluation of the bid.

5.17 Cross checking

Tenderer reserves the right to contact and verify bidder's information, references and data submitted in the bid proposal without further reference to the bidder.

5.18 Absence of specifications

The absence of specifications details regarding any equipment to be supplied under this RFP implies that best general practices will prevail and that first quality material and workmanship will be applied as per the discretion of tenderer. Certification standards, when available, for the to-be-installed equipments and materials, will prevail.

5.19 Cost involved in tendering

The Bidder shall bear all costs associated with the preparation and submission of its bid, including the cost of presentation for the purposes of clarification of the bid, if so desired by the tenderer. The tenderer will in no case be responsible or liable for those costs.

5.20 Amendment in the RFP document

The amendments in any of the terms and conditions including technical specifications of this RFP document will be notified in writing either through post

or by fax or by email to all prospective bidders who have purchased the RFP document and will be binding on them.

5.21 Withdrawal of bid proposal

No bid proposal will be withdrawn subsequent to the deadline for the submission of bids. However, the bidder is allowed to modify or withdraw its submitted bid any time prior to the last date & time prescribed for submission of the bids, by giving a written intimation to the Tenderer.

5.22 Right to negotiate

- (i) The Hartron and Haryana police jointly or the evaluation committee reserves the right for negotiation with the bidders as per the prevailing purchase procedures/policy of the State.
- (ii) The negotiation shall only be carried out with the technically qualified lowest bidder by the HARTRON and Haryana police Jointly / any other competent authority / high power purchase committee of the Haryana Govt. as per the procedures/policy of the Haryana Govt. prevailing at that point of time.
- (iii) The tenderer also reserves the right to chose part or whole of the technically acceptably bids at individual costs quoted in the commercial bids.

5.23 Contract agreement

A contract agreement will be signed between the successful bidder and Haryana police directly.

5.24 Earnest money refund

- (i) The draft of earnest money to the bidder(s), who fail(s) to qualify for the technical bid, will be returned back by tenderer to the authorized representative of the bidder against a proper receipt or will be sent by the registered post at the mailing address of the bidder as specified in the bid within four weeks of opening of the pre-qualification bid.
- (ii) The draft of earnest money to the bidder(s), who fail(s) to qualify for the commercial bid, will be returned back by tenderer to the authorized representative of the bidder against a proper receipt or will be sent by the registered post at the mailing address of the bidder as specified in the bid within eight weeks after completion of technical bid evaluation.
- (iii) The draft of earnest money to the bidder(s), who qualify(s) for the commercial bid, but do not get the order for the project will be returned back by tenderer to the authorized representative of the bidder against a

proper receipt or will be sent by the registered post at the mailing address of the bidder as specified in the bid within one month after signing of contract agreement between tenderer and the successful bidder.

5.25 Letter of intent and Performance Bank Guarantee

- (i) After Acceptance of a Bid Proposal as mentioned at clause no. 5.22 of Section 5, a letter of intent will be issued by the tenderer to the successful Bidder.
- (ii) Acceptance of the letter of intent: The successful bidder shall accept the Letter of Intent within 7 (seven) days from the date of issue of the Letter of Intent by returning a duly signed copy to tenderer.
- (iii) Signing of contract : The successful Bidder shall enter into the Contract Agreement with Haryana police within 10 (Ten) days of the acceptance of the Letter of Intent.
- (iv) Performance bank guarantee: While signing the Contract Agreement with Haryana police, the successful bidder within 15 (fifteen) days of signing the Contract agreement shall furnish unconditional irrevocable Performance Bank Guarantee of 10% of the total value of the project cost from a Nationalized Bank in favour of "Managing Director, HARTRON" on the prescribed Format (as mentioned at Annexure 3), which will be renewed every year by the bidder till the currency of the contract. The said bank Guarantee shall be renewed by the bidder 30 days before the expiry date. However, the last renewal shall be for the period of one year and six months. The said Performance Bank Guarantee be extendable by the HARTRON as per the requirement and shall be kept in full force and effect for the full term of the Contract Agreement including the project management period. Further, the decision of the tenderer with regard to the Performance Bank Guarantee shall be binding on the successful bidder. The tenderer may forfeit the Performance Bank Guarantee for any failure on part of successful bidder to complete its obligations under the Agreement. The Performance Guarantee shall be denominated in Indian Rupees and shall be in the form of a Bank Guarantee issued by a scheduled bank located in India.
- (v) Award of Contract: Tenderer shall formally award contract on the successful bidder upon the receipt of the Performance Bank Guarantee as mentioned at (iv) above.

5.26 Right to vary quantities

Though the bidders shall submit their bid for turnkey implementation of the project, tenderer reserves the right to include only a part or whole or none (in the event of not getting a viable solution within the budget estimated) of the above as scope of the successful bidder. Tenderer shall also reserves the right vary the qty. of the equipment during the bidding process or at the time of award of contract. The tenderer also reserve the right to split up the total scope among two or more bidders who agree to meet such a scope, if found beneficial in the long run for Haryana Police. Hence the bid be prepared carefully considering the scope of each item individually and computing the total.

5.27 Right to accept any bid and to reject any or all bids

The tenderer reserves the right to accept any bid, and to annul the tender process and reject all or any bids at any time without assigning reason prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the tenderer's action.

5.28 Changes in technical specifications and price bid

- (i) Tenderer reserves the right to effect changes in the Technical Specifications after the pre bid discussions with the bidders. Any such change will be notified in writing to all those who have purchased this document.
- (ii) Once quoted, the bidder shall not make any subsequent price changes, whether resulting or arising out of any technical/ commercial clarifications sought regarding the bid, even if any deviation or exclusion may be specifically stated in the bid. It is expected that all clarifications are sought for earlier and the bid requirements understood clearly by the bidder before submitting the bid. Such price changes shall render the bid liable for rejection. However, the Tenderer reserves the right to request the bidder/s to give revised commercial offer after technical evaluation, if the situation so warrants.

5.29 Proprietary rights

The bidder/supplier shall indemnify the tenderer against all third party claims of infringement of patent, copyright, trademark and trade designs arising from use of the goods or any part thereof in India.

5.30 Patent rights

The Bidder shall indemnify the tenderer against all third-party claims of infringement of patent, trademark or industrial design and intellectual property rights arising from the use of the Goods or any part thereof.

5.31 Additional information/clarification

Tenderer reserves the right to ask for any additional information, as it may deem necessary to evaluate the bid proposal. Bidders that fail to submit additional information or clarification as sought by evaluation committee within 10 days of the receipt of tenderer's letter requesting for such additional information and/or clarification, their bids will be evaluated based on the information furnished along with the bid proposal.

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SECTION – 6
TERMS and CONDITIONS OF CONTRACT

6. Terms & Conditions of Contract

6.1 Use of RFP document and other Information

- (i) Successful bidder shall not, without the tenderer's prior written consent, disclose the contract agreement, or any provision thereof, or any specification, pattern, sample or information furnished by or on behalf of tenderer in connection to any person other than a person employed by the tenderer in the performance of the contract agreement and the scope of work. Disclosure of document/information to any such employed person shall be made in confidence and shall extend only so far as may be necessary for such performance.
- (ii) Successful bidder shall not, without the tenderer's prior written consent make use of any document or any information specified in (i) above, except for the purpose of performing the contract agreement and the scope of work.
- (iii) Any document other than this contract agreement shall remain the property of the tenderer.

6.2 Change in the minimum specified work

- (i) Tenderer may at any time by written intimation to the successful bidder, make changes in the minimum specified work.
- (ii) The successful bidder shall not perform changes in the minimum specified work, until tenderer gives permission for such change in writing on the basis of estimate provided by the successful bidder.
- (iii) Mutually agreed change in the minimum specified work shall constitute as a part of the contract agreement and all the provisions and contract agreement shall apply on the said change.
- (iv) Any change in the minimum specified work that may be required for the successful implementation of the project and not involving any significant additional costs shall be carried out by the successful Bidder at no additional cost or expense to the tenderer.
- (v) In the event of withdrawal or discontinuance of any item or items and consequent ceasing of or reduction in demand the successful bidder shall not be entitled to any compensation. Tenderer will, however, make all reasonable endeavors to give warning of any impending complete withdrawal or of any reduction seriously affecting quantities likely to be required under contract.

- (vi) If during the currency of the contract, the specifications of any item or items to be supplied become obsolete, the successful bidder shall continue to comply with demands for the supply of the said item or items in accordance with the new specifications at rate not higher than already agreed rates at the time of contract, and the successful bidder will not be entitled for any compensation also.

6.3 Changes in contract agreement

Except the changes as mentioned in clause 6.2 above, no modification of the terms and conditions of the Contract Agreement shall be made except by written amendments signed by the both successful bidder and Haryana police.

6.4 Project Milestones

- (i) The final acceptance of sites to be connected in the respective cities must be completed within four months from the date of award of formal purchase order.
- (ii) The milestones of the project are mentioned below:-

Sr.No.	Milestone	To be achieved
1	Supply, delivery at site, installation & commissioning Integration of the all the sites in the respective cities	With in 3 month from the date of award of contract
2	Training of officials	With in 3 months from the date of award of contract
3	First Acceptance test	With in 3.5 months from the date of award of contract
4	Final Acceptance test	Within 4 months from the date of award of contract

- (iii) If the successful bidder fails to meet the milestones prescribed at clause 6.4 above the same shall be subject to 0.5% penalty per week of the contract value subject to a maximum of 10% of the total value of the project.
- (iv) The above penalty, if any, shall be recovered from the payments to be made to the successful bidder under this project or recovery will be made from amount of Earnest Money or Bank Guarantee submitted by the successful bidder to tenderer provided that:
- No recovery of penalty will be made, if tenderer accepts the delays by extending the milestones upto two week by recording in

writing that the exceptional circumstances were beyond the control of the successful bidder and there was no loss to Haryana police.

- Where the delay on the part of successful bidder is more than 2 weeks subject to maximum of 4 weeks, the matter of extension of Time frame for accomplishing the particular delayed activity will be referred to the Committee appointed by tenderer with related documents that there are genuine reasons for delay on the part of successful bidder and that no loss will result to Haryana police in case extension is allowed. In case the time frame for the activity as mentioned in the milestones above is extended, no penalty during the extended period shall be recovered from the successful bidder.
- (v) The unexcused delay in performing of any services as mentioned in the milestones by the successful bidder in the prescribed period may render him liable to any or all of the following penalties:-
- The penalty as mentioned at clause no. 6.4 (iii) above.
 - Forfeiture of earnest money and revoking of Security (Performance Bank Guarantee).
 - Termination of the contract as default.

6.5 Responsibilities of Successful bidder

- (i) The successful bidder is responsible to execute all but not limited to the work specified under scope of work as specified in section-2 of this RFP.
- (ii) The successful bidder shall maintain the network infrastructure located at various sites as mentioned in this RFP, for the implementation and operation of the project and allied services.
- (iii) The successful bidder shall handle all the technical and implementation matters.
- (iv) Responsibility of Electricity earthing and its testing according to the norms at each location while installation of equipments is of successful bidder. If at any location the earthing is not working properly or there is no-earthing, then the successful bidder will arrange/repair the same. If any equipment starts malfunctioning due to improper earthing during the currency of the contract, the same equipment will be replaced/repared by the successful bidder at his own cost and the successful bidder will not be compensated for the same.

- (v) To lay down the whole cabling upto each point and the power cabling upto and from the electric supply source, near to each equipment supplied by the successful bidder under this RFP is the responsibility of the successful bidder.
- (vi) Inputs/guidelines for the preparation of site as per standard norms shall be submitted by the successful bidder after site.
- (vii) Civil works, if any, required for passive-cabling systems will be the responsibility of the successful bidder

6.6 Responsibilities of Tenderer

- (i) To provide the adequate electricity points/power at the site
- (ii) To provide appropriate environmental conditions, necessary power facilities for the system, access to the premises, a secure equipment storage area, and suitable conditions for the successful bidder's officials.

6.7 Price fall

- (i) The prices charged for the Items/services supplied under the contract by the successful bidder shall in no event exceed the lowest price at which the successful bidder sells the goods or offers to sell Items of identical description to any persons/organizations including the tenderer, Department of the Central or State Government or any Statutory undertaking of the central or State Government, as the case may be, till the signing of the contract.
- (ii) If, at any time during the said period the successful bidder reduces the sale price, sells, or offers to sell such goods to any person/organization including tenderer or any Department of State or Central Government or any statutory Undertaking of the Central or State Government as the case may be, at a price lower than the price chargeable under the contract, the successful bidder shall forthwith notify such reduction, or sale or offer to sell to the tenderer and the price payable under the contract for the supply of material after the date of coming into force of such reduction or sale or offer to sell shall stand correspondingly reduced.

6.8 Inspection/tests of the items/equipments

- (i) Inspection committee so constituted shall have the power to inspect the items before, during or after installation and to reject the same or any part or portion, if he or they be not satisfied that the same is not at par

or according to the specifications submitted by the successful bidder. The hardware equipment i.e server, if required can be put to the operational as well as burning test for a minimum period of 72 hours.

- (ii) The successful bidder shall not be paid for supplies rejected as specified at (i) above.
- (iii) Successful bidder shall neither claim nor be entitled to payment for any damage that rejected supplies may suffer from any harm whatsoever incidental to a full and proper examination and test of such supplies.
- (iv) Tenderer shall be under no liability whatsoever for rejected items and the same will be at the successful bidder's risk.
- (v) Rejected supplies shall be removed by the successful bidder at his own expense within 10 days after notice has been issued to him of such rejection, and failing such removal of rejected goods will be at successful bidder's risk.
- (vi) Super inspection of already inspected may be carried out at the discretion of the tenderer after installation, by such officer or team of officers as may be authorized by tenderer. The provisions of conditions mentioned at (i) to (v) above will also apply to the Super Inspection.

6.9 Site visit

- (i) The cost of the site visit to all the cities will be borne by bidder himself; tenderer is not liable to provide any facility to the bidder(s) for such visits.
- (ii) Tenderer on its own discretion can cancel such permissions at any moment without any notice to the bidder(s).

6.10 Warranty

- (i) Successful bidder will also be responsible for providing comprehensive on site warranty of all active and passive components for 5 years as the case may be from the manufacturer of the equipment supplied under this RFP.
- (ii) The warranty shall cover repair/replacement of all defective parts, if any, with the same or equivalent make for any part removed. Maintenance will be provided at site. Limited/carry in warranty will not be accepted. The vendor will provide after sale service during the warranty period from Chandigarh or from nearest place to installation. The vendor will attend the complaint within 24 hours and not beyond 48 hours failing which the following penalty shall be imposed.

Sr. No.	Duration	Penalty
1	Upto 48 hours from the logging of the complaint with the vendor	Nil
2	Beyond 48 hours upto 15 days from the logging of the complaint with the vendor	0.2% per day of the total project cost
3	Beyond 15 days of the logging of the complaint till rectification of the fault	0.3% per day of the total project cost

- (iii) The penalty, if any shall be deducted from the bank guarantee /EMD/From the invoices pending with the Hartron. In case the vendor does not attend to the complaints during
- (iv) Warranty shall be deemed to commence from the date of the successful completion and acceptance of the final acceptance test conducted by the technical committee constituted by Hartron and Haryana Police.
- (v) During the warranty period, it will be the responsibility of the successful bidder to rectify any defect and update the System and the software by incorporating necessary patches, upgrades and updates as and when released by the original supplier or found necessary by tenderer so as to ensure that the Solution is functioning to provide the best performance.
- (vi) Successful bidder shall make available to tenderer the necessary manpower at all times to incorporate changes either in the reports or statements and changes in the business rules for the supplied modules. It is also his responsibility to install the software changes to all systems.
- (vii) Successful bidder shall undertake the preventive maintenance of all supplied equipments including active and passive components supplied under this RFP once in every quarter during the currency of contract so as to ensure the smooth functioning of the system and he will have to strictly adhere to this Schedule.

6.11 Project Management and Service Level Agreement

- (i) The systems supplied shall be considered as operational when all the sites of respective cities under this RFP are working, providing all/specified services in full capacity at all locations in this outdoor surveillance system. The service(s) at a site is considered as available,

when that service(s) in full capacity can be used from all the service positions at that particular site.

- (ii) During this period of project management, the successful bidder will attend/rectify the defects at all sites within 24 hours from the time/date, complaints are reported to the successful bidder or its representatives. In case the reported problem is not resolved within 24 hours not later than 48 hrs at such locations, a fine of Rs.1000/- per day per site shall be charged in addition to the penalty mentioned under warranty (clause no 6.10). If the successful bidder does not attend/rectify the defect/problem, HARTRON at its own discretion will have the right to arrange repairs/replacement at the cost and risk of the successful bidder and in such case at the end of the warranty period, the warranty will also be extended for duration equivalent to the total time during which the system remains out of order.
- (iii) The scope of project management include, but not limited to:
- System administration
 - Maintaining and managing the active networking equipment including the passives like racks, cabling, patch panel
 - Supporting the provision of last mile access.
 - Managing and maintaining the electrical system and utilities
 - Sufficient spares to be kept for the smooth and uninterrupted operation of network as per the defined SLAs.
 - Interacting with the bandwidth providers for the sustained connectivity for the backbone network.
 - Interacting with the leased line and Internet Service Providers for the continuous availability of the facilities.
- (iv) Bidder is required to mention the skill level (i.e. certified Hardware/Software Engineers having minimum qualification of B.E./B.Tech with relevant experience. Tenderer reserves the right to verify the technical credential of the manpower to be deputed by the bidder.
- (v) Uptime :- During the period of Project Management, the successful bidder should ensure uptime of the entire system of at least 99% (average for the quarter). If the uptime is found less than 99%, then the amount equivalent to the $((100 - \text{Uptime}\%) * 3)\%$ of the Project Management amount for that quarter will be deducted from the total

amount of Project Management as penalty. The reports for the uptime should be generated weekly. If the average of this weekly uptime is found less than 95% for any four (4) consecutive week's period, then HARTRON on behalf of and in consultation with Haryana Police after getting the advice of Haryana Police can take the penal action against vendor including but not limited to the revoking of the Performance Bank Guarantee. The report of each week should reach the Client by the end of the next week, otherwise the uptime of that week will be treated as zero. During the period of AMC to be awarded by the Haryana Police or the agency so authorized after the successful completion of the warranty period, as specified in section 6.10 of this document, the penalty as specified above for not maintaining the required up time as mentioned above will also be applicable.

For example: - Suppose the uptime for a particular quarter is 96%, then $((100-96)*3)=12\%$ of the Project Management amount for that quarter will be deducted as penalty from the total amount of the Project Management.

- (vi) Downtime will exclude outages due to the following:
- a) The Bidder, if faced with problems in timely delivery of services, which have dependencies on the Service Provider (s) or any other source(s), which are beyond their control at any time, shall immediately inform the tenderer in writing, about the causes of the delay and tentative duration of such delay etc. The tenderer, on receipt of such notice, shall analyze the facts at the earliest and may at its sole discretion, relax the penalties accordingly.
 - b) Outages caused by reasons beyond the scope of work of the successful bidder
 - c) Time taken for scheduled maintenance/troubleshooting either for preventive purposes or improvement in function or other purposes provided however that such periods do not exceed 60 minutes in a quarter.
 - d) Time taken for reconfiguration or other planned downtime situations provided however that such outages taken along with those created by item b above do not exceed 60 minutes in a quarter;
 - e) Scheduled shutdowns as required by tenderer
 - f) Force Majeure events

SLA and penalty clauses as mentioned above have been detailed herein in order to have uniform understanding by the bidders so that commercial offers received shall be uniform comparison. However, the Tenderer reserves the right to alter the SLA or the Penalty conditions thereof after the finalisation of the successful bidder after re-assessing the need, real cost of SLA in various Slabs, SLAs achievable/required as per the applications etc. The Tenderer also reserves the right to modify the SLA and penalty conditions thereof reasonably, as guided by the foregoing principles, during the tenure of the project as per application requirements.

6.12 Third Party Agency

Hartron and Haryana Police if required may involve a third party agency for the inspection, installation, auditing & monitoring the Outdoor Surveillance System for Yamuna Nagar and Sonipat to be installed under this RFP. The successful bidder shall be required to extend full cooperation to the third party agency and shall allow to use monitoring tools.

6.13 Spares

The successful bidder will ensure that supplies of necessary maintenance equipment and spare parts including active and passive components be made available for the life of the equipment or at least for contract duration on continuing basis. Their OEM should have their spares depot in India and should be able to deliver the spares, the next business day. However, it has no bearing on the uptime and related clauses/sections as specified in this RFP.

6.14 Dispatch Documents

- (i) With every dispatch of goods or materials under the contract, the successful bidder will prepare Delivery Challan in triplicate. The original delivery challan is to be sent by the successful bidder to the tenderer.
- (ii) The second copy of Delivery Challan to be returned to the successful bidder by the respective designated officers at each site with the quantities or numbers received duly noted and signed thereon. The said duly signed Delivery Challan received by the successful bidder from the respective intending officers shall also be forwarded to tenderer for further necessary action.
- (iii) The third copy to be sent by the successful bidder to the user for record in its office.

- (iv) The successful bidder shall raise the invoice in the name of Director General of Police, Haryana and the said duly verified bills alongwith duly verified challans by the officials of Haryana police must be submitted to Hartron for the release of the payment.

6.15 Condition of items supplied

- (i) This is subject to the condition that the materials are securely packed by the successful bidder in sound containers and the consignment is accepted by the carriers without any adverse remarks as to the packing or the condition of the containers. In case of any adverse remarks, the responsibility for the losses in transit will rest with the successful bidder.
- (ii) The successful bidder will not be entitled to charge or be paid for supplies broken, lost or damaged in transit. Such supplies shall be removed by the successful bidder at his own expense. The decision in this regard taken by tenderer shall be binding and final.

6.16 Acceptance tests

Acceptance Test shall be conducted in two steps:

A Testing Committee of the officials from HARTRON, Police Department, Head of the respective site or any officer or person as constituted and duly authorized by Haryana Police will perform Acceptance Tests for Hardware at each site as the case may be. The said committee may also choose any three sites randomly to conduct the Acceptance Tests. In any case, if the quality and the quantity of the items supplied by the vendor at one or all the locations are found unacceptable, the vendor shall be held responsible for covering up the loss in terms of both quantity as well as quality wise. All the hardware related payments to the vendor as per the payment schedule mentioned at Section 6.17 would be made after the successful clearance of the following acceptance tests.

- i) 1st Acceptance test
 - (a) The first acceptance test shall involve successful supply, delivery at site, installation & commissioning of all the sites in the respective city.
 - (b) The Brand, Model No., Specifications and quantity of all the supplied and installed hardware items must match with respect to the list and particulars of the items to be supplied for that unit in the respective City.
 - (c) All the required software must be installed and working properly.

- (d) The successful bidder can be asked to demonstrate all the features/facilities mentioned in the bid and product brochures attached along with the bid.
 - (e) All of the equipments, which are to be installed at that unit in the respective city, must be installed and communicating with control room with a 95 % uptime for a period of 15 days. The successful bidder is required to provide the log files to prove their claim of 95% uptime for the said period.
- ii) Final Acceptance test
- (a) All the required hardware equipments must be installed at each of the sites in the respective cities, and should be working properly as per the 1st Acceptance Test for a period of another 15 days with an up time of 99% for the entire system. The successful bidder is required to provide documentary evidence in terms of log files to claim having achieved the 99% uptime.
 - (b) The installed outdoor surveillance system at each city must demonstrate its capability of providing the services enumerated in the contract. Successful bidder will arrange the test equipment if required for performance verification. Successful bidder will also provide documented test results.
 - (c) All of the required system software must be installed and implemented properly and should go through all of the required testing.
 - (d) All of the sites in the respective cities must be communicating properly as per the requirement mentioned at Section-3.
 - (e) Training part of the project should be completed.
 - (f) On the successful completion of the acceptance test and after HARTRON and client are satisfied with the working of the system, the acceptance certificate signed by the authorised representative of HARTRON, authorised representative of Haryana Police and successful bidder will be issued by the HARTRON on behalf of and in consultation with Haryana Police to the successful bidder. The date on which such certificate is issued shall be deemed date of the successful commissioning of the system.
 - (g) Any delay by the successful bidder in the performance of its contracted obligations shall render the successful bidder liable to the imposition of

appropriate liquidated damages, unless agreed otherwise by HARTRON and Haryana Police.

- iii) In the event the successful bidder is not able to complete the installation to link all the sites on outdoor surveillance as defined by tenderer due to non availability of sites by Haryana police or any other reason beyond the control of the successful bidder, tenderer and Haryana Police, the successful bidder and Tenderer may mutually agree to redefine the milestones so that successful bidder can complete installation and conduct the Acceptance Tests within the redefined milestones for such sites..

6.17 Payment schedule

6.17.1 Hardware & Software

- (i) No payment will be made in advance for any supplies/services under this project.
- (ii) 40% against delivery and inspection against the bank guarantee of equivalent amount in favour of Hartorn valid till the currency of the contract i.e. six months from the date of award of the contract, however, the said bank guarantee shall be renewable till the completion of the final acceptance test whichever is later.
- (iii) Balance 30% shall be paid after the successful installation and commissioning at respective sites and after the 1st acceptance is over.
- (iv) Balance 20% shall be paid after the successful completion of Final acceptance test is over.
- (v) Remaining 10% of the hardware & software cost will be released after the satisfactory completion of the three months after the clearance of Final Acceptance Test as specified in this section.

6.17.2 Quarterly release of payment for project management

- (i) Eligible quarterly payments, for the sites accepted in final Acceptance Test shall become due from the date of issuance of final Acceptance Certificate.

- (ii) The cost mentioned in Quarterly Release of payment would be used for additional requirement in future during the period of agreement.
- (iii) The successful bidder's request for payment shall be made at the end of each quarter by invoices along with following supporting documents:
 - a) Site wise Performance statistics
 - b) Log of network parameters along with Service Down time calculation and Uptime percentage.
 - c) Any other document necessary in support of the service performance acceptable to tenderer.
- (iv) On receipt of such invoice after verification by the indenting department i.e Haryana police and after deducting Income Tax, other taxes and any Penalties, tenderer shall pay the amount within a period of 30 days.
- (v) Other payments:- 50% payment for training will be released after its completion and the remaining 50% after completion of the period of project management. (refer Clause No. 6.5 of Section 6)
- (vi) Earnest money of the vendor will be released after the clearance of Final Acceptance Test of the project.
- (vii) Bank Guarantee will be released after the completion of five years and six months of the signing of the contract agreement or the expiry of the management period whichever is later.
- (viii) Any other payment, which is left to cover in the payment schedules, mentioned above, will be made after the three months of the clearance of Final Acceptance Test of the project.

6.18 Handing Over:

- (i) The infrastructure at all the sites shall be handed over to the tenderer after the 60 months (to be calculated from the date of issue of final acceptance certificate).

- (ii) The successful bidder shall hand over the equipment/ infrastructure in good running condition and supported by all reports, documents, updates/upgrades record pertaining to softwares for all the equipment supplied and installed under this project, project management, configuration management, etc. The successful bidder shall also provide complete inventory record of all the equipment including necessary tools installed and operational alongwith their maintenance record at the time of transfer of the project.
- (iii) The successful bidder shall comply with all other requirements as may be prescribed under Applicable Laws to complete the divestment and assignment of all the rights, title and interest of the successful bidder in the RFP free from all Encumbrances absolutely and free of any charge or tax to Haryana police or its nominee.
- (iv) The liabilities of the successful bidder for the said project shall not be transferred to the tenderer or Haryana police and the successful bidder shall be fully responsible for any litigation arising out of it at any time before or after the transfer.

6.19 Sub-contracting of the project

In the event successful bidder intends to use Sub-contractor for any part of the Project, the following shall be adhered to:

- (i) The sub-contracting of the entire project shall not be allowed. Further, the successful bidder will be solely responsible for the whole project and all of the conditions of the project, even if he sub-contracts any part of the project to any other party. In other words sub-contracting would not absolve the successful bidder from the responsibility for the complete project and its conditions. However, sub-contracting of Project Management Services, system integration would not be allowed under this RFP and shall be the sole responsibility of the successful bidder.
- (ii) The successful bidder may subcontract a part of project after informing the Hartron and Haryana Police for the same. However, the successful bidder will be solely responsible for the implementation of any part of the project sub contracted to the satisfaction of tenderer.
- (iii) Evidence that all obligations imposed by the RFP on the Bidder have been fully understood and accepted where applicable by the Sub-contractors.

6.20 Change in company structure

The Membership/Board structure of the bidder, if changed after the bidder is selected, the successful bidder shall accordingly inform the tenderer of such changes.

6.21 Compliance with laws, permits

The successful bidder shall comply with all local, state rules, regulations, ordinances, codes, and laws relating to the work or the conduct thereof and shall secure and pay for any permits and licenses necessary for the execution of the work and successful bidder shall be responsible for the same.

6.22 Liability insurance

Successful bidder shall agree to maintain General Liability Insurance, Worker's Compensation, and tenderer Liability Insurance to cover all its personnel engaged in the performance of the services herein described, as well as damages arising as a result of the performance of such services. Successful bidder further agrees to require his subcontractor(s), if any, to maintain General Liability Insurance, Worker's Compensation, and Tenderer Liability Insurance. The successful bidder shall also be responsible for Employees Provident Fund (EPF) and other worker compensation issues, if any, applicable on his or his subcontractors' personnel.

6.23 Forfeiture of earnest money

- (i) If the bidder withdraws his bid before the expiry of validity or after the acceptance of the bid, the earnest money deposited by the successful bidder will be forfeited.
- (ii) If the successful bidder fails to comply with any of the terms, conditions or requirement of this contract and the technical specifications for the equipment requirement as indicated in various sections of the RFP document, the earnest money deposited by the bidder will be forfeited.
- (iii) In case successful bidder fails to comply with the project milestones as specified at clause no.6.4, the earnest money deposit will be forfeited.
- (iv) In case of issue of the Letter of Intent, (Refer Clause no. 5.25) if the bidder fails to:
 - (a) accept the Letter of Intent by returning a duly signed copy within the time limit specified; and / or
 - (b) execute the contract agreement; and / or
 - (c) furnish the performance bank guarantee as specified in this Document.

The earnest money deposit will be forfeited

6.24 Force Majeure

Neither party shall be responsible to the other for any delay or failure in performance of its obligations due to any occurrence commonly known as Force Majeure which is beyond the control of any of the parties, including, but not limited to, fire, flood, explosion, acts of God or any Governmental body, public disorder, riots, embargoes, or strikes, acts of military authority, epidemics, strikes, lockouts or other labour disputes, insurrections, civil commotion, war, enemy actions. If a Force Majeure arises, the Bidder shall promptly notify Tenderer in writing of such condition and the cause thereof. Unless otherwise directed by Tenderer, the successful bidder shall continue to perform his 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. The successful bidder shall be excused from performance of his obligations in whole or part as long as such causes, circumstances or events shall continue to prevent or delay such performance.

6.25 Termination of the contract

- (i) In the event of the bidder failing duly and properly to fulfill the contract or committing breach of any of the terms and conditions of this contract or repeatedly supplying goods liable to rejection hereunder or failing, declining, neglecting or delay to comply with any demand or requisition or otherwise not executing the same in accordance with terms of this contract or not achieving the milestones mentioned at clause no 6.4 or if the bidder or his agent or servants being guilty of fraud in respect of this contract or any of his partners or representatives found directing, giving, promising or offering any bribes, gratuity, gift loan, perquisite, reward or advantage pecuniary or otherwise to any person in the employment of Government in any way relating to such officers or person or persons, officer or employment or if the bidder or any of his partners become insolvent or apply for relief as insolvent debtor or commence any insolvency proceedings or make any composition with his/their creditors or attempts to do so, then without prejudice to tenderer rights and remedies otherwise, tenderer shall be entitled to terminate this

contract forth with and may claim back all or part of the money already paid to the bidder.

- (ii) The termination of this contract in whole or part under any conditions shall not be affected by the acceptance, meanwhile or subsequently, of supplies accepted or made at any station whether in ignorance of the termination or otherwise.
- (iii) If during the currency of the contract, the successful bidder becomes bankrupt or otherwise insolvent or is likely to become insolvent or bankrupt, tenderer may, at any time, terminate the contract agreement by giving written notice to the successful bidder. Notwithstanding the above, such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to tenderer.
- (iv) Further the tenderer shall also have the unfettered right to repudiate and rescind the Contract if there is any breach of the Contract by the Successful Bidder including but not limited to the occurrence of any of the following events or contingencies:
 - a) Minimum balance not maintained vide revolving guarantee.
 - b) Default achieving milestones affecting the overall time schedule
 - c) Quality of the network/servers/infrastructure facility/ software etc. not as per specifications/agreements.

6.26 Consequences of termination

- (i) Upon termination, the successful bidder shall deliver or cause to be delivered all works carried out for and on account of the State Govt. and all data and records required from or on account of the State Govt.
- (ii) Termination of the contract agreement shall not affect any continuing obligations of the successful bidder under the contract agreement, which, either expressly or by necessary implication, are to survive its expiry or termination such as confidentiality obligations of the successful bidder.
- (iii) Upon termination of the contract agreement for any reason whatsoever, the successful bidder shall return to the tenderer, any and all confidential information and any other property of the tenderer.
- (iv) Tenderer may procure services similar to those undelivered, upon such terms and in such manner, as it deems appropriate, at the risk and responsibility of the successful bidder and the successful bidder shall be liable for any additional costs for such services.

- (v) The successful bidder shall continue the performance of the contract agreement to the extent not terminated.
- (vi) Upon termination of the contract agreement for whatsoever, tenderer shall have the right to impose the following penalties:-
 - (a) Forfeiture of earnest money
 - (b) Revoking of performance bank guarantee by tenderer on advice of State Govt.
 - (c) Imposition of appropriate penalties.

6.27 Insurance of items

Successful bidder shall insure all the delivered items till acceptance and during the Project management period of two years from the date of issuance of acceptance certificate.

- (i) The successful bidder shall arrange for comprehensive Insurance of equipment and works covering transit, storage, erection, commissioning and maintenance as may be necessary and for all such amounts to protect the interest of the Tenderer against all risks. The scope of such Insurance shall cover the entire value of the equipment and Infrastructure being supplied for the entire Contract period.
- (ii) The Transit cover shall be on all risks for inland transit.
- (iii) The successful bidder shall arrange workmen compensation insurance, which shall be at the cost and responsibility of the successful bidder.
- (iv) Any loss or damage to the components during handling, transporting, storage and erection, till such time the complete setup is taken over by the Tenderer, shall be to the account of the successful bidder.
- (v) All costs on account of insurance liability and necessary premium will be on successful bidder's account and such Insurance charges shall be indicated as a fixed Lumpsum as in the Commercial Bid. .
- (vi) Any no-claim bonus shall be to the account of the tenderer.

Tenderer on behalf of Haryana police, shall be the principal holder of the policy. Tenderer reserves the exclusive right to assign the Policy

6.28 Arbitration

- (i) In the event of any dispute or difference arising between the Successful Bidder and tenderer out of or in connection with the Contract or RFP or any of the terms and conditions contained therein or as to the interpretation or any other matter, both the parties shall resolve such dispute or difference first by mutual discussions. If any

dispute or difference still persists, it shall be referred to Home Secretary to Govt. Haryana for Arbitration to be conducted in accordance with Arbitration and Conciliation Act 1996. The arbitration will be held in Chandigarh and the proceedings shall be conducted in English. The parties to the dispute will instruct the Arbitrator(s) to render a decision within 30 days of the date of their appointment and such a decision shall be binding on both the parties.

- (ii) This RFP and the Contract shall, in all respects, be governed by and construed in all respects in accordance with the laws of the Republic of India.
- (iii) In relation to any legal action or proceedings to enforce the Contract, the parties to the Contract irrevocably submit to the exclusive jurisdiction of the courts in Chandigarh to the exclusion of any other court or courts that may otherwise have had such jurisdiction and waive any objection to such proceedings on grounds of venue or on the grounds that the proceedings have been brought in an inconvenient forum.

6.29 Acquaintance with all conditions

The bidder acknowledges that he has made himself fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and the bidder shall not plead ignorance of any of those as excuse in case of complaint against or on rejection of supplies tendered by him or with a view either to ask for encashment of any rates agreed to in the contract or to evading any of his obligations under the contract.

6.30 Limitations of Liability

Further, bidders cumulative liability for its obligations under contract shall not exceed the total contract value.

* * * * *

ANNEXURES

Annexure I:
List of Locations

YamunaNagar

Sr. No.	Place	PTZ	ANPR	Fixed Cameras
1.	Naka Rakshak Vihar	1	3	3
2.	Bus stand Jagadhir	1	-	2
3.	Aggersen Chowk	1	4	4
4.	Buria Chowk	1	3	3
5.	Judicial Complex Mandi Gate	1	2	2
6.	ITI Chowk	1	4	4
7.	Bus Stand Yamunanagar	1	-	2
8.	Fountain Chowk	1	4	4
9.	Railway Station Chowk	1	-	2
10.	Railway Station Yamunanagar	1	-	2
11.	Vishvkarma Chowk	1	2	2
12.	Jodiya Naka	1	2	2
13.	Yanmunanagar Kanal Lakarbridge	1	2	2
14.	Naka Kalanaur	1	2	2

Sonipat

Sr. No	Place	PTZ	ANPR	Fixed Cameras
1.	Nahra Double, Nehar pul	1	4	4
2.	Kundli Border	1	2	2
3.	Garh Mirk Pur	1	2	2
4.	Murthal Chowk	1	4	4
5.	Bahalgarh Chowk	1	4	4
6.	Gita Bhwan Chowk	1	4	4
7.	Hindu College Chowk	1	4	4
8.	Dayal Chowk	1	4	4
9.	Murthal Adda	1	4	4

10.	Court Complex (2 for Gale entry, 2 for Exit Gate)	1	4	4
11.	Shubash Chowk	1	4	4
12	ITI Chowk	1	4	4
13	Kachha Quarter Market	1	4	4

(To be submitted by successful bidder)

Annexure - II
Format of Performance Bank Guarantee in favour of HARTRON

- (i) In consideration of Haryana State Electronics Development Corporation Ltd. (HARTRON) and having its Headquarter at SCO 111-113, Sector 17B, Chandigarh, which expression unless the context otherwise requires, shall include its successors and permitted assigns (the "HARTRON") having agreed to accept from [] (the name of the Successful bidder) a company incorporated, organized and subsisting under the Companies Act, 1956 (1 of 1956) and having its registered office at [..] which expression unless the context otherwise requires, shall include its successors and permitted assigns (the "Successful bidder") under the terms and conditions of an agreement dated the [.....] day of [.....] between the HARTRON and the Successful bidder for the Supply, Installation & Commissioning and Project Management of Outdoor Surveillance system For Yamuna nagar & Sonipat district as specified in the RFP Document for the same. Security deposit for the due fulfillment by the Successful bidder of the terms and conditions contained in the Contract Agreement on production of an interest free bank guarantee ("Performance Bank Guarantee") of 10% of the total project value of Rs. _____ (_____ rupees only) amounting to Rs. _____ (_____ rupees only) in favour of the HARTRON to be renewed annually up to the currency of the contract Agreement. The guarantee amount for such annual renewal shall be calculated on the basis of the balance amount of the total project cost.
- (ii) We, [] (name of the, Bank) do hereby guarantee and undertake to indemnify and pay and keep indemnified the HARTRON in terms of the Contract Agreement to the extent of this Bank Guarantee value of Rs. _____ (_____ rupees only).
- (iii) We, [] (name of the Bank) further agree that if a demand is made by the HARTRON for honoring the Performance Bank Guarantee we, [] (name of the Bank) having no right of decline to cash the same for any reason whatsoever. The fact that there is a dispute between the HARTRON and the Successful bidder is no ground for us [] (name of the Bank) to decline to honour the Performance Bank Guarantee.
- (iv) We, [] (name of the Bank) further agree that a mere demand by the HARTRON is sufficient for us [] (name of the Bank) to pay the amount covered by the Performance Bank Guarantee without reference to the Successful bidder and any protest by the Successful bidder cannot be valid for us [] (name of the Bank) to decline payment to the HARTRON.
- (v) We, [] (name of the Bank) further agree that the HARTRON shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Contract Agreement or to extend time of performance by the Successful bidder from time to time or to postpone for any time or from time to time, any of the powers exercisable by the HARTRON against the Successful bidder and to forbear or enforce any of the terms and conditions

relating to the Contract Agreement and we shall not be relieved from our liability by reasons of any such variation or extension being granted to the Successful bidder or for any forbearance, act or omission on the part of the HARTRON or any indulgence by the HARTRON to the Successful bidder or any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us [] (name of the Bank).

- (vi) We [] (name of the Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the HARTRON in writing.
- (vii) The bank guarantee shall be valid up to _____

DATED THE [] DAY OF [] Signatures _____

Name _____
Designation _____
For [Name of the Bank]
(Seal of the Bank)

PROFORMAS

(To be enclosed with pre-qualification bid).

**Proforma 1
BID PROPOSAL SHEET**

Bidder's Proposal Reference No. and Date	:		
Bidder's Name and Address	:		
	:		
		Tel. No.	Fax No.
Bidders Correspondence address	:		
	:		
		Tel. No.	Fax No.
Name of contact Person	:		
Designation	:		
Telephone No (s)	:		
Fax No (s)	:		
Mobile No	:		
Email ID	:		

To,

Managing Director
HARTRON
SCO 111-113
Sector 17 B
Chandigarh 160017

Subject : Proposal for Supply, Installation & Commissioning and Project Management of Outdoor Surveillance system for YamunaNagar & Sonipat on turn key basis.

Dear Sir,

1. We, M/s _____, having read and examined in detail the specifications, requirements as mentioned in the RFP do hereby propose for Supply, Installation & Commissioning and Project Management of Outdoor Surveillance system For Yamuna Nagar and Sonipat on turnkey basis.
2. **PRICE AND VALIDITY**

All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 120 days from the opening of the commercial bid or six months from the last date of submission of the RFP, whichever ever is later.

3. EARNEST MONEY

We have enclosed the earnest money in the form of Bank Draft amounting to Rs. 2,00,000/- (Rs Two Lac only) in favour of Haryana State Electronics Development Corporation Limited payable at Chandigarh. It is liable to be forfeited in accordance with the provisions of RFP document.

4. ASSURANCE

We declare that all the services shall be performed strictly in accordance with the technical specifications and other terms and conditions covered in RFP document.

5. BID PRICING

We further declare that the prices stated in our proposal are in accordance with your terms & conditions in the bidding document.

6. QUALIFYING DATA

We confirm having submitted the qualifying data as required by you in your RFP document. In case you require any further information/ documentary proof in this regard before evaluation of our bid, we agree to furnish the same, in time, to your satisfaction.

7. We hereby declare that in case the contract is awarded to us, we shall submit the Bank Guarantee as per terms of RFP document.

8. We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to

the best of our knowledge & belief. We further declare that we have read the provisions of this RFP and confirmed that these are acceptable to us.

9. Bid submitted by us is properly prepared and sealed so as to prevent any subsequent alteration and replacement.
10. We understand that you are not bound to accept the lowest or any bid by you.

Thanking you,

Yours faithfully,

(Authorised Signatory)

Date:

Name:

Place:

Designation:

Business Address:

Seal of the company:

(To be enclosed with Pre Qualifying Bid)

PROFORMA - 2
PARTICULARS OF BIDDERS AND MANUFACTURERS

FOR RFP NO. _____

1. Name of the Bidder				
2. Address of the Bidder				
	Tel.		Fax	
3. Year of establishment (Enclose certificate of incorporation under company act 1956)				
4. Bidder's proposal number and date				
5. Name, Designation and address of the officer to whom all references shall be made regarding this RFP				
	Tel:		Mobile:	
	Fax:		Email:	
6. Annual turnover of the firm for the last 3 successive years (in Rs.)	Year	Turn over	Profit	Pg. no of bid
	2007-2008			
	2008-2009			
	2009-2010			
7. Details of Draft for Earnest money deposited	Draft No.			
	Bank Name:			
8. PAN no. of the company (mandatory)				

Signature _____
Name _____
Designation _____
Date _____
Company seal _____

(To be enclosed with Pre Qualifying Bid)

**PROFORMA 3
MANUFACTURER WARRANTY**

We, M/S ----- warrant that everything to be supplied by us hereunder shall be brand new, free from all encumbrances, defects and faults in material. Workmanship and manufacturing shall be of the highest grade and quality and consistent with the established and generally accepted standards. Materials of the type ordered shall be in full conformity with the specifications, drawings or samples, if any, and shall operate properly.

We, M/S----- also undertake that in case any item supplied by us found to be defected, faulty, or used at any stage, it shall be replaced by us at our cost.

Signature of the Witness

Signature of the Tenderer

Name

Name

Seal

Date

(To be enclosed with Prequalification bid on the official letter head of the bidding company)

PROFORMA - 4

UNDERTAKING FOR MANAGEMENT

We, M/S ----- undertake to Supply, Installation & Commissioning and Project Management of Outdoor Surveillance system For Yamuna Nagar & Sonipat on turn key basis.

We, M/S ----- further undertake that we will manage equipment /infrastructure supplied, installed and for a period of two years as per the terms and conditions mentioned in the RFP document. The period of this Project management will begin after the clearance of final acceptance test of the project and with effect from the date on which acceptance certificate for the successful commissioning of the system is issued.

We M/s _____ also agree to extend the project management period for third, year as per the terms and conditions mentioned in the RFP Document if required by the tenderer.

We M/s _____ also agree to hand over the supplied, installed and configured equipment/ infrastructure in the good running condition with same or improved specifications after the completion of the project management period in accordance to the clause no.6.18 of this RFP.

Signature of the Witness

Name

Address

Signature of the Tenderer

Name

Address

Seal

(To be enclosed with Technical Bid on the official letter head of the bidding company)

PROFORMA - 5

UNDERTAKING FOR NETWORK INSTALLED IN COMPLETE RESPECT, TRAINING,
ETC.

We, M/S ----- undertake

1. That we undertake that the equipment installed and commissioned at all the site shall be complete in all respects adhering to the requirements specified in the RFP for end to end implementation of the services.
2. that we will accordingly train the manpower of Haryana police as per the scope of training under section II of RFP document, so that the concerned officers/officials of respective departments/ Haryana police can handle the system, once the project management period is over.

Signature of the Witness

Signature of the Tenderer

Name

Name

Address

Address

Seal

(To be enclosed with Prequalification bid)

PROFORMA - 6
AFFIDAVIT
(MANUFACTURER'S AUTHORIZATION CERTIFICATE)

From

To

Managing Director,
HARTRON, SCO 111-113
Sector 17-B, Chandigarh

_____ do hereby solemnly affirm and declare as under:-

- (i) That this is to certify that M/S _____ is our authorized dealer/distributor/agent and he is authorized to submit tender/quote the rates in the State of Haryana against RFP No. Hartron/Proj/outdoor surveillance/YMN-SPT/ 2011-12/08 due on _____ and to supply the material in original manufactured by us.
- (ii) That we shall have full responsibility of satisfactory supplies against the supply order/rate contract.
- (iii) That I am fully authorized to give this affidavit on behalf of M/s _____ and the power of attorney has been executed in my favour (Attested copy enclosed).

Deponent

(To be enclosed with Prequalification bid on the official letter head of the bidding company)

PROFORMA 7

Indemnification from proprietary rights

From

To

Managing Director,
HARTRON, SCO 111-113
Sector 17-B, Chandigarh

We M/s _____ indemnify Hartron and Haryana police against all third party claims of infringement of patent, copyright, trademark and trade designs arising from use of the goods or any part thereof in India.

Signature of the Witness

Signature of the Tenderer

Name

Name

Address

Address

Seal

(To be enclosed with Prequalification bid on the official letter head of the bidding company)

PROFORMA 8
Indemnification from patent rights

From

To

Managing Director,
HARTRON, SCO 111-113
Sector 17-B, Chandigarh

We M/s _____ indemnify Hartron and Haryana police against all third-party claims of infringement of patent, trademark or industrial design and intellectual property rights arising from the use of the Goods or any part thereof.

Signature of the Witness

Name

Address

Signature of the Tenderer

Name

Address

Seal

Proforma - 9
Technical detail (To be enclosed with Technical Bid)

S. No.	Equipment Name	Qty.	Make / Code	End of sale date	End of support date	Bundled accessories along with equipment	Add on accessories included	Certification wherever required	Compliance of the Specs. Enclose Specs. Sheet
A. YamunaNagar									
1.	IP 1.3 Megapixel Fixed Camera including outdoor housing, varifocal lens 15-50 mm, bracket etc.	36							
2.	IP PTZ, Speed Dome Camera including outdoor housing	14							
3.	Poles for PTZ Camera including mounting kits etc.	14							
4.	Local Switch, 16 Port, Layer 2, 10/100	14							
5.	Control Room Switch, 24 Port, Layer 3, 10/100/1000	1							
6.	Workstation for Video Management and Mounting Core 2 Quad, 2.0 GHz, 4 GB RAM, 500 GB Internal HDD with 22" LCD	3							
7.	Software for Video Management	3							
8.	NVMS Server, Quad Core Xeon, 3.2 GHz, 4 GB RAM or better	1							
9.	Storage, RAID 5, With 6 TB HDD	1							
10.	Video Analytics	Set for 50 Cameras							
11.	Joystick cum Controller	3							
12.	Rack for Server	1							
13.	High Resolution Projector with min 5000+luminance connected to all workstation	1							
14.	2KVA Online UPS for Field Equipment per Local Location with 4 hr backup	14							
15.	10 KVA Online UPS for Control Room with 4 hr backup	1							
16.	AMPR, (Complete Solution as per specs). No of lanes	28 Lanes							
17.	Local Cabling (Bidder to propose)	As per Requirement							

S. No.	Equipment Name	Qty.	Make / Code	End of sale date	End of support date	Bundled accessories along with equipment	Add on accessories included	Certification wherever required	Compliance of the Specs. Enclose Specs. Sheet
18.	Control Room Set up (Bidder to Propose)	As per Requirement							
19.	Connectivity (Bidder to propose as per the option of wireless)	As per Requirement of locations and bandwidths							
20.	Connectivity (Bidder to propose as per the option of lease line)	As per Requirement of locations and bandwidths							
21.	Connectivity (Bidder to propose as per the option of hybrid solution)	As per Requirement of locations and bandwidths							
22.	Installation & Commissioning	LS							
23.	Junction Boxes	14							
24.	Any other item								
B. Sonipat									
1.	IP 2 Megapixel Fixed Camera including outdoor housing, varifocal lens 15-50 mm, bracket etc.	48							
2.	IP PTZ, Speed Dome Camera including outdoor housing	13							
3.	Poles for PTZ Camera including mounting kits etc.	13							
4.	Local Switch, 16 Port, Layer 2, 10/100	13							
5.	Control Room Switch, 24 Port, Layer 3, 10/100/1000	1							
6.	Workstation for Video Management and Mounting Core 2 Quad, 2.0 GHz, 4 GB RAM, 500 GB Internal HDD with 22" LCD	3							
7.	Software for Video	3							

S. No.	Equipment Name	Qty.	Make / Code	End of sale date	End of support date	Bundled accessories along with equipment	Add on accessories included	Certification wherever required	Compliance of the Specs. Enclose Specs. Sheet
	Management								
8.	NVMS Server, Quad Core Xeon, 3.2 GHz, 4 GB RAM or better	1							
9.	Storage, RAID 5, With 6 TB HDD	1							
10.	Video Analytics	Set for 61 Cameras							
11.	Joystick cum Controller	3							
12.	Rack for Server	1							
13.	High Resolution Projector with min 5000+luminance connected to all workstation	1							
14.	2KVA Online UPS for Field Equipment per Local Location with 4 hr backup	13							
15.	10 KVA Online UPS for Control Room with 4 hr backup	1							
16.	AMPR, (Complete Solution as per specs). No of lanes	48 Lanes							
17.	Local Cabling (Bidder to propose)	As per Requirement							
18.	Control Room Set up (Bidder to Propose)	As per Requirement							
19.	Connectivity (Bidder to propose as per the option of wireless)	As per Requirement of locations and bandwidths							
20.	Connectivity (Bidder to propose as per the option of lease line)	As per Requirement of locations and bandwidths							
21.	Connectivity (Bidder to propose as per the option of hybrid solution)	As per Requirement of locations and							

S. No.	Equipment Name	Qty.	Make / Code	End of sale date	End of support date	Bundled accessories along with equipment	Add on accessories included	Certification wherever required	Compliance of the Specs. Enclose Specs. Sheet
		bandwidths							
22.	Junction Boxes	13							
23.	Any other item								
C.	ANY OTHER ITEMS NEEDED FOR THE PROJECT								
D.	OTHER ITEMS							Yes	No
	Project Management for 1 st Year								
	Project Management for 2 nd Year								
	Project Management for 3 rd Year								
	Project Management for 4 th Year								
	Project Management for 5 th Year								
E.	Warranty FOR FIVE YEARS								
F.	Availability of Spares								
G.	AMC after the expiry of period of project management								
	AMC For 6 th Year (with spares)								
	AMC For 7 th Year (with spares)								
	AMC For 8 th Year (with spares)								
	Project Management for 7 th Year (optional)								
	Project Management for 8 th Year (optional)								

Signatures of authorized signatory

Name:

Date:

Seal of the company

(To be enclosed with technical bid)

**PROFORMA 10
TECHNICAL DEVIATIONS**

Subject: Technical Deviations for carrying out Supply, Installation & Commissioning and Project Management of Surveillance system For Yamunanagar & Sonipat on turn key basis.

Dear Sir,

Sr. No.	Clause No.	Page No.	Statement of deviations and variations
------------	---------------	-------------	---

Date

Signature

Name

Place

Seal

(To be enclosed with commercial bid)

**PROFORMA 11
FINANCIAL DEVIATIONS**

Subject: Financial Deviations for carrying out Supply, Installation & Commissioning and Project Management of Outdoor Surveillance system For Yamunanagar & Sonipat on turn key basis

Dear Sir,

Sr. No.	Clause No.	Page No.	Statement of deviations and variations
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Date

Signature

Name

Place

Seal

Proforma - 12
Commercial Bid
 (to be enclosed with commercial bid)

S. No.	Equipment Name	Qty.	Make/ Code	Unit Price	Excise Duty	Customs	Sales Tax/VAT	Packaging and Transport ation	Local Levies	Insurance	Warranty cost	Total cost
YamunaNagar												
1.	IP 1.3 Megapixel Fixed Camera including outdoor housing, varifocal lens 15-50 mm, bracket etc.	36										
2.	IP PTZ, Speed Dome Camera including outdoor housing	14										
3.	Poles for PTZ Camera including mounting kits etc.	14										
4.	Local Switch, 16 Port, Layer 2, 10/100	14										
5.	Control Room Switch, 24 Port, Layer 3, 10/100/1000	1										
6.	Workstation for Video Management and Mounting Core 2 Quad, 2.0 GHz, 4 GB RAM, 500 GB Internal HDD with 22" LCD	3										
7.	Software for Video Management	3										
8.	NVMS Server, Quad Core Xeon, 3.2 GHz, 4 GB RAM or better	1										
9.	Storage, RAID 5, With 6 TB HDD	1										
10.	Video Analytics	Set for 50 Cameras										
11.	Joystick cum Controller	3										
12.	Rack for Server	1										
13.	High Resolution Projector with min 5000+luminance connected to all	1										

S. No.	Equipment Name	Qty.	Make/ Code	Unit Price	Excise Duty	Customs	Sales Tax/VAT	Packaging and Transport ation	Local Levies	Insurance	Warranty cost	Total cost
	workstation											
14.	2KVA Online UPS for Field Equipment per Local Location with 4 hr backup	14										
15.	10 KVA Online UPS for Control Room with 4 hr backup	1										
16.	AMPR, (Complete Solution as per specs). No of lanes	28 Lanes										
17.	Local Cabling (Bidder to propose)	As per Requireme nt										
18.	Control Room Set up (Bidder to Propose)	As per Requireme nt										
19.	Connectivity for Yamunanagar (Bidder to propose as per the option of wireless)	As per Requireme nt of locations and bandwidth s										
20.	Connectivity for Yamunanagar (Bidder to propose as per the option of lease line)	As per Requireme nt of locations and bandwidth s										
21.	Connectivity for Yamunanagar (Bidder to propose as per the option of hybrid solution)											

S. No.	Equipment Name	Qty.	Make/Code	Unit Price	Excise Duty	Customs	Sales Tax/VAT	Packaging and Transportation	Local Levies	Insurance	Warranty cost	Total cost
22.	Installation & Commissioning	LS										
23.	Junction Boxes	14										
24.	Any other item											
	Total Cost A											
SONIPAT												
1.	IP 2 Megapixel Fixed Camera including outdoor housing, varifocal lens 15-50 mm, bracket etc.	48										
2.	IP PTZ, Speed Dome Camera including outdoor housing	13										
3.	Poles for PTZ Camera including mounting kits etc.	13										
4.	Local Switch, 16 Port, Layer 2, 10/100	13										
5.	Control Room Switch, 24 Port, Layer 3, 10/100/1000	1										
6.	Workstation for Video Management and Mounting Core 2 Quad, 2.0 GHz, 4 GB RAM, 500 GB Internal HDD with 22" LCD	3										
7.	Software for Video Management	3										
8.	NVMS Server, Quad Core Xeon, 3.2 GHz, 4 GB RAM or better	1										
9.	Storage, RAID 5, With 6 TB HDD	1										
10.	Video Analytics	Set for 61 Cameras										
11.	Joystick cum Controller	3										
12.	Rack for Server	1										
13.	High Resolution Projector with min	1										

S. No.	Equipment Name	Qty.	Make/ Code	Unit Price	Excise Duty	Customs	Sales Tax/VAT	Packaging and Transport ation	Local Levies	Insurance	Warranty cost	Total cost
	5000+luminance connected to all workstation with remotely operated screen											
14.	2KVA Online UPS for Field Equipment per Local Location with 4 hr backup	13										
15.	10 KVA Online UPS for Control Room with 4 hr backup	1										
16.	AMPR, (Complete Solution as per specs). No of lanes	48 Lanes										
17.	Local Cabling (Bidder to propose)	As per Requireme nt										
18.	Control Room Set up (Bidder to Propose)	As per Requireme nt										
19.	Connectivity for Sonipat (Bidder to propose as per the option of wireless)	As per Requireme nt of locations and bandwidth s										
20.	Connectivity for Sonipat (Bidder to propose as per the option of lease line)	As per Requireme nt of locations and bandwidth s										
21.	Connectivity for Sonipat (Bidder to	As per										

S. No.	Equipment Name	Qty.	Make/Code	Unit Price	Excise Duty	Customs	Sales Tax/VAT	Packaging and Transportation	Local Levies	Insurance	Warranty cost	Total cost
	propose as per the option of hybrid solution)	Requirement of locations and bandwidths										
22.	Installation & Commissioning	LS										
23.	Junction Boxes	13										
24.	Any other item											
	Total Cost B											

Other cost

E	Project management	No of sites	Cost per unit	Service tax	Total cost iclusiver of service tax
	Project management for 1 st year				
	Project management for 2 nd year				
	Project management for 3 rd year				
	Project management for 4 th year				
	Project management for 5 th year				
	Total C				
D	Installation and commissioning				
E	Training				
	Grand Total (A+B+C+D+E)				
F	AMC charges				
	AMC charges for 6 th year with spares				
	AMC charges for 7 th year with spares				
	AMC charges For 8th Year(with spares)				
G	Project management for 6 th year				
	Project management for 7 th year				

	Total G				
	Grand Total with AMC and 6 th and 7 th Year Project management (A+B+C+D+E+ F+G)				

Signatures of authorized signatory/Date
Seal of the company/Name & address

PROFORMA 13

DECLARATION BY THE BIDDER

(To be enclosed with pre qualification Bid)

NAME OF THE BIDDER: M/s _____

The bidder is requested to sign and affix their seal on each page of this document and submit this duly signed original RFP document with pre-qualification bid in respective cover without fail.

The bidder is also requested to give the following declaration as per the format.

We M/s _____ have gone through the terms and conditions and will abide by them as laid down vide pages from 1 to ____ (RFP containing Pre-qualification, Technical, Commercial Bid and all relevant Annexures and formats enclosed)

We M/s _____ hereby confirm that our firm has not been blacklisted by any State Government / Central Government. We M/s _____ further confirm that our firm has no legal case pending in any of the courts for winding up the company.

We M/s _____ hereby declare that the particulars furnished by us in this offer are true to the best of our knowledge and we further understand and accept that, if at any stage the information furnished is found to be incorrect or false, we are liable for disqualification from this tender and also is liable for any penal action that may arise due to the above.

Date:
Place:

Signature :
Name :
Designation :
Seal of Bidder:

PROFORMA 14
Check List to be enclosed with Pre qualification Bid

Name of Bidding Company:				
Sr.No	Description	Yes	No	Remarks/Details/Pg No.
Pre Qualification Bid				
1.	Duly signed and stamped RFP Document in original and any amendments issued subsequent to the Pre-bid conference			
2.	EMD of Rs 2,00,000/-			
3.	Bid proposal sheet duly filled in, signed and complete in all respects. (Proforma – 1			
4.	Particulars of the Bidder as per Proforma-2			
5.	The bidding firm/company must be a registered company under the Companies Act 1956			
6.	The bidding firm/company must comprise a single company and consortiums are not permitted to bid			
7.	The bidding firm/company must be having valid ISO 9001 certification at the time of bidding			Date of expiry of ISO certification
8.	The bidding company must be a Networking & System Integration company and must be in Networking & System Integration business for the last three years			
9.	The Turn over of the bidding firm/company must be minimum Rs. 10 crores (Rs. Ten Crores) in the last financial year with a consolidated Turn over of Rs. 25 Crores (Rs. Twenty Five crores) for the last three preceding years. This must be bidding company's turn over and not that of any group of companies. A copy of last three financial years relevant Balance Sheets i.e 2007-08,2008-09 and 2009-10 should be submitted with the office.			Turn Over Pg. No. 2009-10 2008-09 2007-08
10.	The bidding firm/company have made profits as per the audited balance sheets in the last three financial years and should be in sound financial position as judged by the Evaluation Committee for this purpose			Year Profit Pg. No.
11.	The Original Equipment Manufacturers (OEM) of the critical equipments like camera hardware, servers, software cabling etc should have ISO international quality certification for manufacturing these products. The Bidder shall attach the copy of the OEM's ISO Certificate along with the bid			Date of expiry of ISO certificate
12.	List of 20 engineers on its roll at the time of bidding			

13.	Undertaking for the project management of the project (Proforma – 4)			
14.	Undertaking with regard to the compliance of warranty for all the equipment and accessories as per the clause no.6.10			
15.	Undertaking to provide Warranty certificates of each and every equipment and its accessories effective from the date of successful completion and acceptance of final acceptance test as specified at clause no.6.16 and the period of warranty should be as per the clause no 6.10			
16.	The bidding company must have signed an agreement with OEM for such equipment and its accessories for providing the technical support including spares for the period of contract i.e. five years after the completion of the final acceptance test. The copy of such agreement(s) to be attached with pre qualification bid.			Name of the OEMs
17.	Manufacturers warranty as per Proforma 3			
18.	Manufacturer authorization certificate proforma 6			
19.	Indemnification from proprietary & patent rights Proforma 7 & 8			
20.	Declaration by bidder Proforma 13			
21.	The bidding firm/company or their technology partner/OEM must have successfully implemented CCTV Networking projects as under in the last three years. The satisfactory reports from the said customers including copies such purchase orders including technical as well as commercial aspects are to be enclosed with the Pre-Qualification. One outdoor IP CCTV project of 50 nos. of Nodes/Two outdoor projects of 25 Nodes spread across multiple locations in a city environment			Name of client Value Pg. No.
22.	Attested Photo copies of completion certificate and award of order of all the projects handled, along-with the contact details of the clients, which includes Name of concern, address, name of contact person, designation, phone number(s), fax, mobile number, e-mail address(s), etc.			
23.	The bidding firm/company should have support centers in Haryana/Chandigarh/Delhi or in case bidding firm/company does not			

	have support center in Haryana/Chandigarh/Delhi, bidder should set up the support centers within a month in case the contract is awarded to it and the same should be functional till the period of performance warranty/support and project Management of the sites to be connected which ever is later. The bidder will submit an undertaking in this regard along with the Bid as per clause no. (xiii) of 4.2			
24.	The bidding company/firm must certify that the Technology quoted is State of the art and latest			
25.	The design/solution provided by the bidder for the project must be in accordance to the policies/regulations applicable to such networks as laid by Govt. of India or its agencies			

PROFORMA 15
Check List to be enclosed with Technical Bid

Name of Bidding Company:				
Sr.No	Description	Yes	No	Remarks/Details
Technical Bid				
1.	The bidder has to give comprehensive plan detailing project schedule, team structure, implementation methodology, training details, project and management of the project, etc. in technical bid and shall give an undertaking that the proposed network to be installed and commission shall be complete in all respect adhering to the requirements of this RFP. (Proforma 5)			
2.	The bidders are required to submit with their offers, detailed technical literature of the systems offered to enable a clear understanding of various technical aspects			
3.	Bidder shall specify the brand name, make and technical specification of all the equipment and accessories quoted for this project (Proforma 9)			
4.	An undertaking from the bidder to ensure the compliance with existing Govt. of India policies/regulations applicable to the such network/connectivity. (Proforma 5)			
5.	Plans for User Training as per clause no.2.4 of this document			
6.	Acceptance test plans			
7.	An undertaking that after the expiry of the project management period, the bidder will handover the total system in running condition in accordance to the clause no.6.18			
8.	An undertaking from the bidder that he shall accordingly train the manpower of respective departments of Haryana Govt. as per the clause no. 2.4 of this document			
9.	Technical Detail Proforma 9			
10.	Technical Deviation Proforma 10			
11.	Check List Proforma 15			