# HIGH COURT OF UTTARAKHAND AT NAINITAL

# SECOND CORRIGENDUM

# Dated: September 05, 2012

The second corrigendum is carried out in respect of the Tender Notice Dated 11.06.2012 & 22.08.2012 for supply, installation, commissioning, operation and maintenance of IP based CCTV Surveillance System (total solution).

Tender Corrigendum information is available in the website <u>http://highcourtofuttarakhand.gov.in</u>

Sd/-Registrar General

# HIGH COURT OF UTTARAKHAND AT NAINITAL

SECOND CORRIGENDUM

In TENDER NOTICE

Dated: September 5, 2012

Sealed superscripted tenders are invited in two bid system for supply, installation, commissioning, operation and maintenance of IP based CCTV Surveillance System (total solution) for the purpose of security, monitoring and recording within the High Court of Uttarakhand Complex at Nainital & the complex of subordinate Courts of High Court of Uttarakhand at district Almora, Dehradun, Nainital, Bageshwar, Chamoli, Champawat, Tehri Garhwal, Pauri Garhwal, Rudraprayag, Udham Singh Nagar, Pithoragarh, Uttarkashi & Haridwar

The detailed specifications, conditions and tender form can be downloaded from the Uttarakhand High Court website: http://highcourtofuttarakhand.gov.in or can be received from the High Court of Uttarakhand, Nainital...

Date of commencement of issue of tender document: Last date for receipt of Bid submission: Opening of Technical Bid documents:

Date of theoretical evaluation Date of practical demonstration: Earnest Money Deposit: 05.09.2012 29.09.2012, 03:30 PM 29.09.2012

06.10.2012 and 07.10.2012 03.11.2012 and 04.11.2012 ₹ 5,00,000/- (five lacs only)

Financial bid of only those tenderer(s) will be opened, as the High Court may decide, after consideration of the technical bids. The High Court reserves its right to accept or reject any or all tenders, at its sole discretion, without assigning any reason whatsoever.

Sd/-Registrar General

# HIGH COURT OF UTTARAKHAND AT NAINITAL

BID FOR SUPPLY, INSTALLATION, COMMISSIONING, OPERATION AND MAINTENANCE OF IP BASED CCTV SURVEILLANCE SYSTEM (TOTAL SOLUTION)

١.	Name & address of the tenderer.	
2.	Brief details of similar projects undertaken by the tenderer; and the order value thereof.	
3.	Turn over of the tenderer during the last three financial years:	
4.	Details of offices of the tenderer in Nainital/Haldwani/U.S. Nagar/Haridwar/Dehradun/Delhi	
5.	Details of service centers of the tenderer in Delhi/Haldwani/Nainital	
6.	Earnest Money Deposit: D.D./F.D.R.(Nationalized Bank)/Bank Guarantee (Nationalized Bank)	

Place:

Date:

Signature of the Tenderer.

Request for Proposal (RFP) for IP BASED CCTV Surveillance System (Total Solution) for the High Court of Uttarakhand Complex at Nainital & the complex of subordinate Courts of High Court of Uttarakhand at district Almora, Dehradun, Nainital, Bageshwar, Chamoli, Champawat, Tehri Garhwal, Pauri Garhwal, Rudraprayag, Udham Singh Nagar, Pithoragarh, Uttarkashi & Haridwar

Introduction: High Court of Uttarakhand is looking for a Total Solution to accomplish requirements of Security Surveillance with state-of-art technology along with available migration path to emerging technologies in the future.

This RFP is against the requirement for Establishment of a State of the Art System with OFC Network & a highly secure IP based CCTV Surveillance system for the purpose of Security, monitoring and recording within the High Court of Uttarakhand complex at Nainital & the complex of subordinate Courts of High Court of Uttarakhand at Almora, Dehradun, Nainital, Bageshwar, Chamoli, Champawat, Tehri Garhwal, Pauri Garhwal, Rudraprayag, Udham Singh Nagar , Pithoragarh, Uttarkashi & Haridwar

Vender has to submit proposed wired solution technology.

Interested parties may send their tenders in two separate sealed covers, subscribing one as "TECHNICAL BID" and other as "FINANCIAL BID" FOR Total solution for CCTIV SURVEILLANCE SYSTEM (<u>TOTAL SOLUTION</u>) addressed by the name of the undersigned so as to reach on or before 29.09.2012 up to 03:30 PM. The technical and financial bid should be sealed by the bidder in separate cover/duly superscribed and both these sealed covers will put in a bigger cover which should also be sealed and duly superscribed. Technical bids will be opened on 29.09.2012 in the High Court of Uttarakhand. There will be demonstration of proposed solution in the High Court of Uttarakhand (The demonstration will be part of Technical Bid). Financial bids of firm found suitable on evaluation of technical bid, will be opened subsequently. The High Court of Uttarakhand will have all freedom and right in evaluation of technical bid.

#### I. SCOPE OF WORK:

Vendor has to take up the contract on turnkey basis, i.e. procurement, installation, commissioning operation and maintenance of IP BASED CCTV SURVEILLANCE system as per following details:

- Installation of cameras (PTZ and Fixed) cameras including poles as required & with suitable mounting arrangement in a Vandal Proof Housing. The requirement of number of cameras may increase at the time of placing order or in future.
- Laying, terminating & connecting Single mode Optical Fiber Cable (OFC) in star/ring/as per requirement topology with redundancy between cameras & control room.
- 3. Establishing control rooms for configuration, operation, monitoring & maintenance with high resolution 21" LCD display having workstation with of 21"/32"/42" LCD for Monitoring purpose has to be setup. & joystick based zoom control for camera for configuration of minimum 42 Cameras. Alternate monitoring at another Location having additional 21" monitor with desktop PC for individual camera for full view. High Court of Uttarakhand & Subordinate Courts of High Court will provide control room location and facilities.

- 4. Installation, configuration & customization of video software. The software package will support up to 2 x 64 cameras at a time from the Main Control Room and Alternate Control Rooms respectively.
- 5. Installation & commissioning Digital Video Storage (NAS), Desktop PC, Workstations, Switches, Weather Proof Panel box for cameras, switches as per specifications, Fiber Laying & Termination, LAN/Power cables, UPS, poles for camera, Power to camera and weather proof enclosure and Surge & lightening protection for each camera etc.
- 6. Training: After complete installation, vendor will provide training of Minimum 20 days to a team of 05-10 Persons from High Court Security Staff Team & to Security Staff Team of each Subordinate Court at the site for Surveillance Monitoring and maintenance.
- 7. Alarm system for security alert.

### 2/1 SYSTEM DESCRIPTION:

- GENERAL SYSTEM DESCRIPTION AND OVERALL REQUIREMENTS Remote Camera based monitoring system, which shall consist of :
- A Combination of Network Surveillance Colour IP cameras located all over the campus at the identified locations. The cameras will be of Pan/Tilt/Zoom(PTZ) type and balance will be fixed type.
- 3. Reception of the digital video from all cameras at the Control room called Central Monitoring Station (CMS) and additional stations over Web Browsers. CMS should have computer with customized software for all two-way control system, monitoring on all LCD display, data logging and recording of the operation on the CMS as well as the Network Attached Stored (NAS) at Central Monitoring System.
- 4. On line computer display of Individual camera video on large screen
- Archival of sub framed rate or full frame digital video of all or selected camera(s) in computer disks. On line replay capability from NAS and/ or Selected Backup disks for a period up to 30days.
- 6. Back-up Archival of video from Main workstation NAS to external device along with reload facility.

## 2/2 OPERATIONAL FLEXIBILITY OF THE SYSTEM :

- 1. On line replacement of malfunctioning camera + technical redundant infrastructure, Switches without affecting overall system
- Expansion of system should be possible with software setting at monitoring station by adding camera. Vendor shall provide information on maximum camera capacity of video software. Video software must support maximum number of cameras.
- 3. Relocation of camera units within radius of 20 meters without any change of hardware. Physical changeover and civil work charges, if any, can be paid at actuals.
- 4. Remote maintenance & diagnostic of any kind of fault for all camera & network should be possible and remote maintenance also be possible. Camera failure history should be in work station/PC based Monitoring Software Logs.

#### 3/1 DETAILED ITEM-WISE SPECIFICATIONS:

IP-NETWORK PTZ CAMERA / Make: UL or EN approved Sony/Axis/Honeywell/pelco/bosch/cisco/ Levelone/Infinova/Indigovision

- Camera type: Colour IP-Network PTZ High Speed Dome, Camera with inbuilt LAN connectivity having night vision facility with mounting stand and power supply.
- 2. Sensor type : 14" CCD, 400000 (752x582) pixels or better
- 3. Resolution : Horizontal Minimum 530 TVL or more (PAL), 4CIF, 2CIF, CIF, 704x480 (NTSC), 704x576 (PAL)
- 4. Video compression : M-JPEG/MPEG-4 (H.264 desirable) Frame Rate : Up to 30/25 FPS video in 4CIF or better
- 5. Pan angle : 360° endless
- 6. Tilt Rotation angle : 0° to 90°
- 7. F-number : 1.6 (wide) or better
- 8. Viewing angle : 48° (wide) minimum
- 9. Optical zoom : 36x or more, Focal length: Max. focal length should be between 3.4 mm to 122.4 mm.
- 10. Illumination : Colour- 1.4 Lux or better( 50 IRE) ; Black and white: 0.15 Lux or better ( 50 IRE)
- 11. White balance : Auto/ Indoor/Outdoor
- 12. Aperture/Iris : Auto/Manual, with AGC
- 13. Day/Night functions : Auto/Manual (IR Illuminators for better picture quality at night)
- 14. Interface : Ethernet 10BaseT/100BaseTx. RJ45 connector port
- 15. Configurability : From central server/computer through Ethernet/LAN7 with password Authentication
- 16. Camera controls : From central server/computer through Ethernet/LAN/ including PTZ Function
- 17. Enclosure : Outdoor, weatherproof, vandal proof, clear dome type, industrial grade & compliant to IP66 standard compatible, thunder proof with internal power supply, fan, heater and blower.
- 18. Temperature/Humidity: -10° C to -50° C, 90% or less (without condensation) with image stablisation.
- 19. Power supply : 230 volts AC, 50 Hz, Mains or Original DC adaptor supplied by manufacturer and/or PoE support along with UPS
- 20. Others features : PTZ preset 256 positions ; video motion detection, event/alarm trigger with pre & post recording facility, dual video streaming, multicasting.
- 21. Protocol supported : RTP/RTCP , UDP/IP, TCP/IP, multicast IP, DNS and DHCP client, HTTP, PPPOE (FTP, SMTP, NTP, SNMP addible)

22. TELNET

- 23. ONVIF : The Camera shall conform to the ONVIF (Open Network Video Interface Forum) specification.
- 24. Electrical Safety: Built-in surge and lightning protection.

- 25. Alarm: Camera Tamper Detection.
- 26. Updating: Remote firmware updates.

#### 3/2 IP-NETWORK FIXED CAMERA.

Make Sony/Axis/Level one/Honeywell/pelco/bosch/cisco/ Infinova/Indigovision

- Fixed Day and Night Full HD/1080p Colour IP Camera
  - CMOS Sensor: 3MP and above

Image Resolution: PAL: 2560 x 1920, 2048 x 1536, 1280x960, 1024x768, 800x600, 768x576(DI), 704x576(TV-PAL), 640x480 (VGA), 384x288, 352x288, 320x240, 160x120, free image format selection

- Shutter Speed: (1/60)s to ~(1/100,000)s
- Horizontal resolution: 650 TV lines .
- Minimum Illumination: Colour 0.1 Lux, B/W: 0.1 Lux .
- Video Output: Composite video output 75 ohm
- White Balance: Auto
- Signal to noise ratio : better than 50 dB
- Built in IRLED, for upto 50 mts IR range or better
- Video Compression: H.264, JPEG, MPEG4
- User Authentication (ID and password), Host authentication (MAC)
- Communication Interface: IRI45 10M/100M, Ethernet interface, 1 RS.485 interface
- Working temperature: -10° C to ~ 50° C
- Weather Proof: 1P66
- Power supply: 230 volts AC, 50 Hz, Mains or Original DC adaptor supplied by manufacturer and/or PoE support along with UPS
- Back light Compensation off/on selectable;
- Camera Tamper Detection.
- Certification: CE, FCC

# 3/3 Video Compression H.264 Main Profile/MJPEG

- Video Streaming Dual H.264 1.
- Simultaneously H.264 + JPEG or MPEG4 2.
- H.264: 1920x1080, MJPEG: 1920x1080 Resolution 3.
- Frame Rate H.264 : @ 25/30 fps 4.
- Video Control Multi-Stream H.264 and Motion JPEG, controllable frame/ bit rate (bandwidth), VBR / CBR control , 5. RTSP Path, Digital PTZ to choice image area
- 6. Image Setting Brightness and contrast Manual/Auto
- Exposure Auto / Manual 7.
- 8. Sharpness Manual
- 9 Contrast Manual
- 10. White Balance Auto / Manual
- Digital Zoom Ix ~ 12x 11.
- 12. Image Rotation Flip, Mirror, and 180 Degree Rotate
- 13. Motion detection ON/OFF
- 14. Privacy Mask ON/OFF
- Type Mosaic, Transparent, Color 15. Privacy Mask ON/OFF
- 16. ICR
- 17. Audio Two-way Audio
- 18. Compression/meu ^-law PCM 5Khz/G.711/ADPCM/GSM-AMR/MPEG-4 AAC
- 19. Alarm Input 5V 10kQ pull UP
- 20. Output Photo Relay Output 300VDC/AC
- 21. Event System / Trigger GPIN, Motion Detection, On Boot, Manual Trigger,
- 22. Action File upload via FTP, HTTP, Email and save to SD card
- 23. Notification via email, HTTP and TCP, External output activation

24. Video Buffer Pre and Post Alarm

- 25. Network Interface : 10/100/1000 Mb Ethernet (RJ-45)
- 26. Protocol supported : HTTP, HTTPS, TCP/IP, Ipv6, SMTP, FTP, PPPoE, DHCP, IGMP, UPnP DDNS, NTP, DNS, ARP, RTSP, RTP, RTCP, ICMP, Telnet
- : User and Administrator, Https Encryption 27. Password Levels
- 28. Internet Browser : Internet Explorer (6.0+) /Mozilla/Chrome
- 29. Operating Temperature : -10°C to ~ 50°C for PTZ and -10°C to ~ 50°C for fixed
- 30. Humidity : 90% or less, Non Condensing
- : DCI2V adaptor should be from original manufacturer or inbuilt 230V AC, 50Hz 31. Power Source
- 32. Housing for Camera (Enclosure) : Aluminum Alloy, Weather Proof, Vandal Proof, IP66 with Inbuilt blower and heater.

#### 3/4 IP base Joystick with Controller

- 1. Joystick Controller
- 2. Minimum Programmable Buttons

3/5 Video Monitoring and Control System Software

- 3. Interface
- 4. Joystick Travel
- Centering
   Housing
- 7. Life cycles
- 8. Operating temperature

Three axis, two button Hall effect

#### RJ45/USB

8

36° (18° from center) Single spring, Omni-directional High impact, glass-filled nylon 10,000,000 -10°C to ~50°C

Compatibility: Monitoring, Controlling and Recording Software along with Network management software shall be compatible with,

- Supplied Cameras (must be from same supplier/manufacturer) 1
- 2. Networking Units.
- 3. Windows and LINUX (any flavour) Operating System supplied with computer. With duo compatibility with the software of surveillance.
- 4. Overlaid software suite on O/S

3/6 Control Functions: All control functions will be implemented from software like,

- 1. Camera configuration and basic I/O, validation and control.
- 2. Network Configuration, control and management.
- Video display control, mode selection.
   Video Archive Control and management.
- 5. Security Control with password and encryption.

3/7 Camera I/O Functions software : All Camera control functions should be implemented in software such as

- Automatic / manual configuration of IP based camera units and all I/O 1.
- 2. Software must be capable simultaneously handling up to 120 camera units for CMS using 4 monitors at single work station.
- 3. MPEG4/ JPEG video or photo capture and online display on same screen (up to 16)
  - Software should be from the OEM of cameras only.
  - Software should be ONVIF compatible.
  - The software should support third party interfacing/integration of IP cameras.
  - The Video Management System should support seamless integration with access control and intrusion detection system.
  - E-map feature.
  - The Video Management System should be capable of live viewing, recording, playback and archiving of video/data to an external storage device simultaneously.
  - The Software should support integration with Video analytics from same OEM.
  - The Video management software should have auto throttling feature which would reduce the frames of the camera which are not being viewed/highlighted by the operator.
  - Should support pre- and post recording of video images at the time of alarm.
- 4. Camera status information.
- 5. Alerts for camera unit's disconnection/ malfunction/low light (Audio visual with reset), Motion detection base archival activation Control of camera (pan/tilt/zoom) from control room.

### 3/8 Central Monitoring Station, Switches, camera connectivity with fiber topology as per specification & location of switches.

- 1. All Server & Desktop PC should be connected with Suitable switch (10/100/1000T base) at CMS with Single mode fiber in gigabit star/ ring/ as per requirement topology.
- 2. Capable of online 1/O with 16/64 video channels display (vendor to size as per required bandwidth for video transmission)
- 3. Each camera should be connected to Individual switch through CAT-6 STP cable. Two- fiber port of the switch will be connected in ring. Compatible switch as per specification will be mounted on each OFC termination location.

3/9 Network Control and management : All network management functions to be through a Web Browser and software also like

- 1. Configuration of all switches for camera connectivity
- 2. Automatic network management during normal operations
- 3. Facility for network switching-over in-case of network element failure
- 4. Network control from password protected account only.

#### 3/10 Recording and Archival of Video:

- 1. Capable for automatic and manual configuration settings.
- Automatic recording disk area management with System area/Video area partition on disk /Camera Wise Recording on NAS.
- 3. Sub Frame rate (Settable) video recording
- 4. All camera/Selected camera recording capability
- 5. Disk full alarms/alerts
- 6. Playback (menu based and smart Search integrated utility for retrieval of particular events etc.)
- Date/Time stamped recording Windows compatible and Linux media file format of MPEG/JPEG standard (or) any
  other format, which consumes less memory.

#### 3/11 Workstations and accessories for Central Monitoring Station Make : DELL / IBM / HP / SUN/ FUJITSU

- 1. Processor: INTEL 5600 Xeon 3.0 GHZ (or latest/higher), 12 MB min. Cache, Quad core
- 2. Motherboard: INTEL/HP/DELL/IBM/FUJITSU branded mother board based on Intel
- 3. chipset with following requirements:
  - 100/1000 TX LAN Double
  - 1333 MHz system bus
  - ECC DDR 3, 1333 MHz RAM
  - Hot-plug Storage
  - SATA 4 ports controller
- 4. Ports: 1 x serial, 4 x USB, 2 x ps/2 (all on motherboard)
- 5. Memory RAM: 12 GB DDR 667 ecc expandable to 24 GB (min)
- 6. HDD: 2x500 GB for OS & 2 x 1000 GB for video applications
- 7. Monitor: 21" LCD colour, aperture grill, anti-reflective, resolution: 1600 x1200 @70Hz or better, 24 bits color,0.26 mm dot pitch, energy star compliant
- 8. Internal DVD writer : 8x DVD (w), 32x DVD (r) capability for DD DVD media x 2
- 9. Keyboard : PS2 104 keys windows compatible
- 10. Mouse : Optical scroll with pad
- 11. Power supply : Hot pluggable Redundant Power Supply, 750 watts
- 12. Cabinet : ATX form factor with total 7 device bays minimum
- 13. OS : Windows Server 2008 professionl with 64 bit OS + original media with key
- Graphics: PCI-exp x-16, 3D graphics card, 2 GB Min. VRAM 1600 x 1200 resolution, 24 bit color (NVIDIA 560 or better) Compatible with 21"monitor.
- 15. Printer : Color Laser Printer A4 size, 600 Dpi, 8 PPM, 10/100/1000 Tx network also B&W Printer
- 16. Interface, Dual print mode, USB & Parallel port, Linux certified.
- 17. Media for Backup: External Hard Disk of Terabytes.

3/12 LCD colour TV FULL HD 21"/32"/42" - Make : LG / Samsung / Sony or any reputed company.

- I. LCD Screen Size : 21"/32"/ 42"
- 2. Display Resolution : Full HD 1920 x 1080
- 3. Aspect Ratio : 16:9
- 4. Viewing Angle : 1780
- 5. Picture Frame Rate : 24 per second
- 6. Motion Picture Updating Rate : Minimum 100 Hz
- 7. Audio Output Power : Minimum 20W(10Wx2)
- 8. Picture in Picture : Yes
- 9. USB 2.0 : Movie & JPEG

3/13 Camera Pole : - Pole should be fabricated from hot dip galvanised, weatherproof & powder coated painted, up to 6meter high from ground level with RCC foundation, box mounted up to 1.25 meter from ground level for switch with lock & various cable arrangements for camera & network equipment. Vendor should supply all the mounting accessories. Pole design should support wind speed of 130 Km/hour.

#### 3/14 An Uninterrupted Power Supply (UPS) System for CMS

- 1. Output Power Capacity 2 KVA/5KVA/10 KVA with minimum 2-4 Hrs Backup (Online UPS)
- 2. Efficiency at Full Load > 94%
- 3. Bypass Mechanism Inbuilt Static, Maintenance
- 4. Waveform Type Sine Wave
- 5. Nominal Output Voltage 230V
- 6. Output Voltage Tolerance +/-1% static and +/- 5% at 100% load step
- 7. Output Voltage THD < 2% for 0 to 100% linear load and < 5% for full load
- 8. Efficiency at Half Load > 94%
- 9. Neutral Output Current 50A
- 10. Input Frequency Auto Sensing (47 ~ 70 Hz)
- 11. Maximum Input Current 27A
- 12. Input Breaker Capacity 50A
- 13. Battery Type and Backup Sealed Maintenance Free (SMF) 4 Hours Backup on Full Load
- 14. Battery Housing Included
- 15. Audible Alarm Audible and visible alarms prioritized by severity
- 16. Operating Environment: -10°C to ~ 50 °C

# 3/15 LAN switch at CMS (PoE Support)

- 1. 10/100/1000 MBPS
- 2. It should support minimum 24 LAN port
- 3. Minimum 4 port single mode fiber 9/125 micron loaded with SFP compatible
- 4. Switch should support 1000 base LX & TX/RX Single Mode fiber & maximum distance of 20 Kilometer support
- 5. Should be fully SNMP managed with VLAN support
- 6. Operating conditions: -10°C to ~ 50 °C, 85% RH (non-condensing)
- 7. Layer 2+ support.

#### 3/16 LAN switch at rack locations (PoE Support)- based on topology used for fiber connectivity

- 1. 10/100/1000 MBPS
- 2. It should support minimum 8 LAN port
- 3. Minimum 2 Shared SFP Port single mode fiber 9/125 Micron compatible loaded with SFP expandable upto 12 port Fiber
- 4. Switch should support 1000 base LX & TX/RX Single Mode fiber & maximum distance of 20 Km support.
- 5. Should be fully SNMP managed with VLAN support
- 6. Operating conditions: -10 C to ~50 C, 85% RH (non-condensing)
- 7. Layer 2+ support

#### 3/17 Network Attached Storage (NAS):

(with provision for virtualization in case of emergency to be possible) (F,SUN, IBM,HP, DELL, NETGEAR)

- 1. NAS with 12 TB Raw Unformatted Capacity and expandable up to 24 TB.
- Vendor to Populate 12 nos. of ITB Hdd's to achive 12TB Raw capacity + 1 Hot Spare drive support
   CPU should be Multicore processor
- 4. Should have Dual Redundant Power Supplies preloaded in the offered device.
- 5. Memory 4GB ECC RAM minimum
- 6. Support for SATA-I and SATA-II Drives Minimum 12 Drives
- 7. Hot-swappable and lockable trays for HDD's
- 8. Minimum 2 nos. of Gigabit Copper Ethernet ports and ports should have network support for Auto Failover, Round robin, 802.3AD link Aggregation
- 9. USB 2.0 Ports minimum 2 nos. for Connecting Backup Devices such as USB HDD's
- 10. It should support DHCP Server to support DHCP clients and inbuilt routing capability.
- 11. RAID levels 0/1/5/6
- 12. Hot-swap and Hot Spare Drive support
- 13. iSCSI target supported over Ethernet Port to Achive SAN Functionality
- 14. Supports Windows, Mac, Linux/UNIX clients, CIFS/SMB for Windows and Mac OS X
- 15. NFS v3 for Linux/UNIX
- 16. HTTP and HTTPS for web browsers, FTP and FTPS support
- 17. Print sharing

# 3/18 Desktop PC

Make: HP/Dell/LENOVO/IBM or any reputed firm.

- 1. INTEL Core-i7 CPU, min 3.2 GHz, 6MBCache or higher,FSB 1333MHz
- 2. Motherboard : HP/DELL/LENOVO branded on Intel chipset, 4 GB RAM
- 3. LCD Monitor : TFT Colour display 21" Monitor
- 4. HDD : 500GB SATA 7200 RPM
- 5. Internal DVD writer : 8x DVD (W) writer, 32x DVD (R) capability for DD DVD media
- 6. Graphic card : Full HD support with minimum 2 GB vRAM with HDMI port
- 7. OS: windows 7 prof. 64 bit OS + original media
- 8. Optical scroll mouse and Key board
- 9. Cabinet with Power supply
- 10. Gigabit Ethernet

#### 3/19 Optical Fiber Cable (OFC) & Local Area Network (LAN) cabling

- OFC should be TEC approved and reputed make. The Vendor has to submit the Manufacturer test reports along with OFC.
- 2. Cable Type: Minimum Single Mode 6 (six) core Optical Fiber, 9/125 ^m, armored outdoor type application.
- 3. Armoring: OFC should be laid in HDPE pipes.
- 4. Route indicators (Metallic) for O22FC cable are to be placed for every 100 mtrs.
- 5. Joint indicators for OFC cable are to be placed for every OFC joint.
- The OFC cables are to be laid in buried HDPE pipes. Diameter of the HDPE pipe should be 25mm of Std. Make with ISI mark.
- 7. Depth of Soft and Hard Soil trench : 3 Feet x I Feet . The Vendor shall have to resurface the same properly with concrete material before handover.
- 8. The Pits are to be covered back on both sides after work completion.
- 9. OFC cable has to be spliced and jointed wherever required and tested by the vendor.
- 10. Fiber Distribution Infrastructure:- Racks to be placed in all the location in the building where the Network switches are terminated. OFC cables to be terminated fully for all cores in proper LIU's using SC Adapter plates / couplers and pigtails. Please include the Sub Components and Unit Prices in offer.
- OFC will be routed in ring mode across campus & all cameras will be connected though OFC gigabits ring. In event of an OFC break, the cameras on the network will maintain communication with workstation on an alternate route.
- OFC will form a star/ring/ as per requirement topology. Entire topology will work on 100/1000/MBPS on TCP/IP LAN. The entire camera will be on same TCP/IP domain having IP address RR.YY.KK.XX domain where only XX will be variable.

#### 3/20 UTP & Power cable

- 1. All the cables should be weatherproof, outdoor grade & as per BIS standard.
- CAT-6 cable should user for camera termination. Both ends should have UTP I/O's and the Patch Cords should be pre-moulded, connectorized & reputed make.

#### 4. SYSTEM COFIGURATION DETAILED DESIGN:

Vendor should give full system configuration giving diagram and detailed placement of each Components/ sub systems along with technical bid.

#### 5. ON-SITE RESIDENT ENGINEER for SUPPORT:

Minimum One Site Engineer (technically qualified having all essential qualification) should be available each District Headquarter and at such sites where total number of cameras is ten or more.. Additional manpower should be added as and when required to keep the system in working condition. All manpower deployed should be on payroll of the company.

Man power deployed will carry out:

- 1) Preventive and routine maintenance of the system.
- 2) Maintenance and bug management of the system
- 3) Operation of system
- 4) Data base management
- 5) Assist High Court and subordinate Courts in regular operation of the system
- 6) Any other work to keep system always available in working condition

#### 6. DOCUMENT:

Operation and service manuals for each items supplied to be provided - 3 sets. Service manuals will provide complete system details like operation, & maintenance of system with details configuration, relevant lay out, diagram and drawings.

#### 7. INSPECTION & ACCEPTANCE:

Acceptance Test will be conducted as follows:

I. High Court of Uttarakhand or any Team constituted by Court reserves the right to inspect all active/Passive equipments/material procured/provided under this project. The cost of all such tests shall be borne by the Vendor. Any inspected goods fail in to confirm the specification after installation, the UTTARAKHAND High Court may reject them and the Vendor shall have to replace the rejected goods. In case of inspection waiver the same shall be obtained before the dispatch of goods. Inspection of rest of material shall be done at site by the Engineer-In-Charge. Sample approval should be obtained before installation of such material.

- 2. The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 3. Final Acceptance Test (FAT): After successful installation of the equipment/Material in accordance with the requirements as mentioned in Contract, Final Acceptance Test will be conducted. After successful testing, Acceptance Test Certificate will be issued by High Court or any Team constituted by High Court.
- 4. The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the Equipments/Material.
- Any delay by the Vendor in the Acceptance Testing shall render the Vendor liable to the imposition of appropriate Penalties.
- All goods and services should have approval of TEC with ISI or other certification, as applicable, to prove the quality standards applicable in India.

7/I IP BASED SURVEILLANCE CCTV system with all the equipments, cable and other materials are to be inspected at on site by the Team constituted by High Court of Uttarakhand before installation. The readiness is to be informed for this inspection.

7/2 Vendor shall provide details of Acceptance Test Procedure (ATP) to High Court of Uttarakhand as per tender specifications & will demonstrate system specifications as per ATP to UTTARAKHAND High Court. During ATP vendor will use their own tools, equipments. High Court will not provide any test instrument/tools.

7/3 Final payment will be made after satisfactory testing, commissioning and acceptance of the complete system.

7/4 the system will be considered as installed and accepted only after successful uninterrupted operation of the entire system at site for period of minimum six month.

7/5. After work order, installation & commissioning to be done at all sites simultaneously & complete work at all sites to be completed within a period of six month.

7/6. For demonstration:- All Equipments as per specification respective bids will have to be arranged by the bidder.

#### 8. TECHNICAL TERMS AND CONDITIONS:

- 1. Technically complied vendor will be called for technical presentation/discussion and onsite demonstration.
- The bidder should be a company registered and operating under the Indian Companies Act, 1956 since April 1, 2005 or earlier.
- The bidder should be an established System Integrator being in this business for a period exceeding five years as on 31.03.2012.
- 4. The bidder must have on its roll at least 25 technically qualified professionals in the area of Project Management / Electronics Security Systems / System Integration / Networking /Wireless in providing the services as on 31.03.2012.
- 5. The bidder shall furnish last month EPF paid details along with name and no. of employee's details etc.
- 6. The bidder should submit valid letter from the OEMs confirming following:
  - Authorization letter from OEM / Technology partner
  - Technology partner letter confirming 'Products quoted are not end of-life for the further period of 6 years'.
  - Support including spares, Software upgrades shall be made available for next 7 years
- 7. The bidder must provide a list of places where such systems have been installed and/or are being maintained by him with their configuration and with the references. Work order or purchase order copies etc. The bidder is required to provide assurance to arrange for a visit at such place in case the committee needs to evaluate the performance of the installation.
- 8. The bidder must have overall turnover of ₹ 10 Crores for each of the last three preceding years (2009-2010, 2010-2011, 2011-2012,) or total turnover of ₹ 30 crores for last 3 years. The bidder must attach audited accounts as supporting documents. Un-audited accounts will not be considered.
- 9. The bidder should have completed the total similar project of more than ₹ 10 Crores in last 3 years out of which any single order value must be more than ₹ One Crore value during the last three years as on 31.03.2012.
- 10. The bidder should be financially sound. The bidder shall submit net worth of the company as per Audited Annual report for the last three financial years preceding the last date of submission of the proposals.
- The bidder should furnish valid commercial tax registration certificate, valid service tax registration certificate and Permanent Account Number (PAN) issued by income Tax department.
- Both the Camera Types and the Monitoring and Control Software has to be from a single vendor only to ensure proper integration. All Switches have to be from a single vendor for ease of maintenance. Workstations can be from DELL/IBM/HP/ SUN/ FUJITSU.
- 13. Terms & conditions compliance statement must be attached with technical bid. Vendor must quote for all items as listed in the specifications. The specifications of the total system shall be as per specifications or better.
- 14. Vendor has to comply with each and every line item of this RFP.
- 15. Vendor must quote for standard 'make' items and Specify 'name of the manufacturer', make' & 'model' of the items along with product catalogue. Detail bill of material must be provided by the vendor in the technical Section along with all Makes, Model nos.
- Any additional details about compliance, non-compliance(Deviation) or additional feature about quoted items must be described separately in the Table-3.

- 17. Vendor has to take up the contract on turnkey basis job, i.e. procurement, installation, commissioning and operation of the entire system (all elements included) to the entire satisfaction of High Court of Uttarakhand.
- 18. In case any vendor not meeting technical specifications for any system/sub-system as per tender, it should be clearly mentioned separately in technical offer specifying details of deviation.
- 19. Vendors will quote all the items as per specification in price bids. Part offer will be rejected.
- 20. After laying of the various types of the cables and mounting the poles and cameras, Vendor will carry out related finishing and civil work as it was.
- 21. If any item is not quoted in price bid by the vendor and it is required to implementing this project, vendor will supply all the required items without paying any extra cost as this is a turnkey job.
- 22. Vendor will lay and supply all types of cable like OFC, UTP, Power Cable, etc. Cable length shown in bill of material is approximate and payment of the cable laying and supplying will be on actual basis. (per meter)

#### 8/2. Warranty support :

#### Warranty Terms

All goods/materials (including Cabling)/Labour work shall be supplied/carried out strictly in accordance with the specifications, drawings, datasheets, other attachments and conditions stated in the Bid/Order/LOL. All materials supplied by the Vendor shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials.

The Vendor shall be responsible for the warranty support and also for the post warranty support and as required by the High Court of Uttarakhand.

- In case of failure, the Vendor needs to replace or repair the faulty part/component/device to restore the services at the earliest during the warranty period of 3 years from the date of acceptance of entire system will all subcomponents used in the project.
- 2. It is vendor's responsibility to keep the system in good working condition with minimum down time. Down Time shall be between 30 minute to 04 hours depending upon the distance of site from the location of Engineer per camera per day at an average throughout the warranty period. The system should be up for more than 98% in a Quarter.
- 3. The vendor is responsible for maintaining uptime as under:
  - Computers: At least one Monitoring work station always up (100%)
  - Network/Fiber: Central Switches 99% uptime per Quarter
  - Camera units:98% uptime per Quarter
- 4. Local office: Vendor/Contractor shall have Nainital /Haldwani/U.S. Nagar/Haridwar/ Dehradun/Delhi based local office with a full fledged support facility. Vendor to give the list of the support staff and their capabilities along with technical bid.
- 5. The cost of the repairing or replacement of faulty part/component/device has to be entirely born by the Vendor.
- 6. In event of default originating with the design, material arising at any time during the warranty period, the Vendor shall replace as may be necessary to ensure the material should function in accordance with the specification and to fulfill the foregoing Warranty without any delay.
- The Vendor shall warrant that every work executed under the contract shall be free from all defects and faults in material, workmanship etc during warranty period.
- 8. In the event that the materials supplied do not meet the specification and/or are not in accordance with the drawings data in terms of this order, and rectification is required at site, High Court of Uttarakhand shall notify the Vendor giving full details of difference. The Vendor shall attend the site within seven (7)days of receipt of such notice to meet and agree with representatives of Uttarakhand High Court, the action required to correct the deficiency. Should the Vendor fail to attend meeting at site within the time specified above, High Court shall be at liberty to rectify the work/materials and Vendor shall reimburse High Court all costs and expenses incurred in connection with such trouble or defect.
- All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the Vendor during warranty period.
- The Vendor also has to make alternate arrangement in case of major failure happening in the network, due to which services may be affected for longer period.
- 11. After repairing or replacement of the part/component/device, the Vendor needs to put the same into operation.
- 12. Vendor has to assure back to back warranty from respective OEM are produced and assure High Court's requirements are met. Vendor is also required to provide the certificate or proof for the same as and when requested.

# 8/3 COMPLAINT REGISTRATION:

Compliant shall be sent by Email, telephone or by any other means. The vendor should provide name, address and telephone number of the contact person in Nainital /Haldwani/U.S. Nagar/Haridwar/Dehradun/Delhi who shall be available 24 hours 7 days (other than site engineer/s) to whom contacted. It is desirable to provide Office & mobile telephone numbers of site engineer.

#### 8/4. RESPONSE TIME:

The vendor should attend the call immediately on receipt of the compliant and repair the system within 2 Hours of the receipt of the complaint. If it is not possible to repair the system within stipulated time frame, the vendor should replace within 12 Hrs the defective part. The original defective part may be repaired and replaced later on at the earliest.

#### 8/5. THE DOWN TIME:

If any, will be accounted only if the fault/defect is not rectified (except for spare replacement) Within 4 Hrs and will be calculated (on quarterly basis) from time at which the complaint is lodged. If spare replacement is required, it shall be done within 24 Hours of the Call log time. Up time shall be as follows:

- (a) Computers: At least one Monitoring work station always up (100 %) overall 95 %
- (b) Network/Fiber: Central Switches 99% uptime
- (c) Camera units: 98% at each point.

#### 8/6. COMMERCIAL TERMS:

- 1. The prices quoted by vendor should be for delivery at our premises including transportation etc.
- 2. Approximate quantity is at Table -I. Quantity of equipments may increase or decrease.
- VAT/GST extra as applicable (Please indicate the percentage). Also indicate on which item the taxes are applicable (as per the price bid format).
- Percentage of Service Tax extra as applicable. Also indicate on which item the Service Tax is applicable (as per the price bid format)
- Warranty:- Vendor must give three years on site warranty from the date of acceptance for entire system with all the sub components used in the project.
- 6. The warranty is comprehensive with spares. It does not include consumable like printer cartridges, papers etc.
- Additional AMC charges, year wise from fourth year onwards. Price of this charges is not be considered for qualifying as a lowest bidder. Bid for additional AMC from qualifying vendor will be acceptable.
- All the vendor should quote as per "BILL OF MATERIAL CUM PRICE STATEMENT" The vendor should provide the list of consumable item alongwith Technical bid. Table -2
- 9. All the vendor should quote the price in "BILL OF MATERIAL CUM PRICE STATEMENT" for each site separately.
- 10. All the vendor should submit the compliance table for the each item as per Table-3

#### 9.0 PAYMENT TERMS:-

1	No advance payment will be made.	Dette 1
	After submission of PBC as mentioned in respective clause and after receipt of deliveries of Material at destinations within 30 days from LOI/Work Order.	60%
	After successful installation and commissioning of System as per Contract Agreement and successful Final Acceptance Test (FAT) by Third Party agency.	40%

#### 10. SERVICE SUPPORT & ANNUAL MAINTENANCE CONTRACT CHARGES (AMC):

- 1. Vendor will provide spares & service support for 10 years. Service support commitment in writing should be given for all the supplied items from OEM on his letterhead duly signed by a competent authority.
- After completion of three-year warranty, vendor will offer year wise comprehensive AMC charges for next seven years. Please mention the charges separately in the Price Bid for Year wise comprehensive AMC. The work of appointed agency shall be reviewed on yearly basis & then based on the performance the AMC shall be renewed on yearly basis.
- 3. OFC laying charges per meter will be On actual basis (Per Meter).
- 4. Installation and commissioning is in the scope of contract.
- 5. Vendor will provide Delivery, installation, commissioning and acceptance schedule along with technical bid.
  - Time required for delivery after placement of order
  - Time required for installation & commissioning after supply.
  - Time required for getting our acceptance after commissioning.

<u>II/I.</u> Vendor has to provide a copy of the price bid/Commercial bid format without indicating prices to this part. This is to ensure that you are quoting all the items as per our format, since Price Bid will not be opened initially.

#### 12. PENALTY CLAUSE:

Penalties for delay in implementation:

- Failure to complete the Installation/Commissioning/ Acceptance If the Vendor fails to completed the Installation/Commissioning/ Acceptance within the time period(S) specified in the LOI/Order/Instruction, High Court of Uttarakhand may, without prejudice to its other remedies under the Agreement, levy as Penalties a sum equivalent to 5% for first two months and a sum equivalent to 10% for third month & beyond months.
- 2. If High Court of Uttarakhand fails to provide space and related clearances for installation of the equipments at designated site/sites, within 30 days from written instruction given to Vendor to carry out the job as per the agreement terms, as a result of which the installation of the equipment is delayed and the Vendor is not able to adhere to the schedule for completing the Acceptance Tests. In such an event the Vendor will prove the

Acceptance Test with the completed sites and if the tests are accomplished within the scheduled time according to the Third Party Agency then the Operator will be deemed to have completed the Acceptance according to the schedule and High Court will be required to pay the Operator as per agreement terms.

#### 12/1. OPERATIONAL PENALTIES:

- The Vendor shall repair/ replace all faulty material covered under the warranty within the shortest possible time thus ensuring minimum downtime as mentioned at Clause "Warranty Terms", failing which applicable penalty will be imposed. The following penalties for Operational Deficiencies shall apply:
  - The Vendor shall be responsible for maintaining the desired performance and availability of the system/services. Vendor should ensure the prompt service support during warranty period as under:
  - If the Vendor fails to attend the call as specified above, the following penalty will be imposed on each delayed day, which will be recovered against due payment of Vendor/PBG:

Penalty/Day. for each day, if Problem is not resolved within 6 hour from complaint lodged.	Penalty/Day. For each day, if problem is not resolved after 3 days from complaint lodged.
₹ 10,000/- per day.	₹ 20,000/- per day.

#### 13. PERFORMANCE GUARANTEE

- The Vendor shall furnish Performance Guarantee as provided in the bid document to High Court of Uttarakhand for an amount equal to 10% of the value of Order. Since it is a Rate Contract Tender, Vendor will have to submit PBG as decided by High Court initially, and subsequent PBG at the time of submission of the bills, for the work carried out to the user department.
- 2. The performance guarantee will be in the form of bank guarantee from Nationalized Bank for the amount equal to 10% of the value of the Contract towards faithful performance of the contract obligation, and performance of the equipments during Warrantee period of 3 years. In case of poor and unsatisfactory field services, High Court of Uttarakhand shall invoke the PBG.
- 3. The Performance Guarantee shall be valid for a period of 180 days beyond Warrantee period and shall be denominated in Indian Rupees and shall be in the form of an unconditional Bank Guarantee issued by any nationalized Banks having branch in Delhi/Haldwani to be submitted within 7 working days of receipt of award. The Performance Guarantee shall be discharged by High Court of Uttarakhand and returned to the Vendor within 30 days from the date of expiry of the Performance Bank Guarantee.

Sd/-Registrar General High Court of Uttarakhand At Nainital

				R	EQUIRE	TABLE-1 REQUIREMENT OF ITEMS	OF ITEM	S					
NS	PLACE	Outlying Courts	Fixed Camera	P/T/Z Camera	Alarm System	21" LCD Display	32" LCD Display	42" LCD Display	Work Station	Desktop (PC)	Laser Printer	UPS (On Line)	Other equipments
	HIGH COURT												
-	OF UTTARAKHAND	High Court	26	=	-	-	-	ω	-	-	-	10 KVA	As per requirement
2.	ALMORA	Almora	14	01	01		01		01	01	01	5 KVA	As per requirement
ω		Ranikhet	01		10	10			10	10	10	2 KVA	As per requirement
4		Dwarahat	01		01	01			01	01	01	2 KVA	As per requirement
5.		Bhikiyasen	01		01	0			01	01	01	2 KVA	As per requirement
6.	RAGESHWAR	Bageshwar	80		01		10		01	01	01	5 KVA	As per requirement
7.	DAGLOTIWAN	Garur	02	1	01	0			01	01	01	2 KVA	As per requirement
8.	CHAMOLI	Gopeshwar	06	02	01		10		01	01	01	5 KVA	As per requirement
9.		Karnprayag	03	1	01	01			01	10	10	2 KVA	As per requirement
10.		Tharali	03	1	01	0			01	01	01	2 KVA	As per requirement
11.	CHAMPAWAT	Champawat	17	0	01			01	01	01	01	5 KVA	As per requirement
12.	CI IN DELLA TANA TA	Tanakpur	06	01	01		10		01	01	01	2 KVA	As per requirement
13.		Dehradun	20	06	02			01	01	01	01	10 KVA	As per requirement
14.	DEHRADIN	Rishikesh	60	03	10		10		0	10	01	5 KVA	As per requirement
15.		Vikas Nagar	04	02	10	0			01	01	01	2 KVA	As per requirement
16.		Chakrata	02	-	01	01			01	10	01	2 KVA	As per requirement
17.		Roshnabad	29	03	01			01	0	01	01	10 KVA	As per requirement
18.	HARIDWAR	Roorkee	15	02	01		10		01	10	01	5 KVA	As per requirement
19.		Laksar	10	02	01		10		01	10	01	5 KVA	As per requirement
20.		Nainital	13	1	01		10		01	10	01	5 KVA	As per requirement
21.	NAINITAL	Haldwani	22	02	01			01	01	10	01	10 KVA	As per requirement
22.		Ramnagar	80	02	01		10		01	10	01	5 KVA	As per requirement
23.	PAURI	Pauri	02	03	01	01			01	01	01	2 KVA	As per requirement

	10KVA=05												ľ
As per requirement	5KVA=16	40	40	40	80	17	<b>6</b> l	41	66	354	TOTAL		
	2KVA=19												
As per requirement	2 KVA	0	01	01			10	01	1	03	Purola		40.
As per requirement	5 KVA	0	10	0		01		01	01	=	Uttarkashi	IITTARKASHI	39.
As per requirement	5 KVA	0	01	0		01		01	01	10	Khatima		38.
As per requirement	5 KVA	0	10	0		01		01	01	12	Kashipur	NAGAR	37.
As per requirement	10 KVA	0	01	0	01			0	01	33	Rudrapur	IIDHAM SINGH	36.
As per requirement	2 KVA	0	01	01			10	01	04	1	Kirtinagar		35.
As per requirement	5 KVA	0	01	01		01		01	02	60	Narendra Nagar	GARHWAL	34.
As per requirement	5 KVA	0	01	0		01	and the second second	01	60	81	New Tehri	TEHRI	33.
As per requirement	2 KVA	01	01	01			10	01		04	Ukhimath		32.
As per requirement	2 KVA	01	01	01			10	01	02	05	Rudraprayag	RIIDRAPRAYAG	31.
As per requirement	2 KVA	01	01	01			10	01	01	01	Gangalihat		30.
As per requirement	5 KVA	01	01	0		01		0	01	07	Didihat	PITHORAGARH	29.
As per requirement	5 KVA	01	10	0		01		0	01	15	Pithoragarh		28.
As per requirement	2 KVA	01	01	0			10	0	02	03	Kotdwar.		27.
As per requirement	2 KVA	01	01	0			10	0	01	02	Shrinagar		26.
As per requirement	2 KVA	01	01	0			10	0	01	01	Lansdown		25.
As per requirement	2 KVA	01	01	01			01	01	1	0	Family Court, Pauri	GARHWAL	24.

22	21	20	61			8		17	16	15	14	13	12	- II	10	9	8	7		6	ы	4	3	2	1	SN	
12 Port LIU with Adapter Plates and couplers SC type(Fully Loaded - Rack Mount )	Six core Single Mode Optical fiber Cable (payment on actual basis)	Desk top PC with 21" LCD monitor (as per specification)	Network Attached Storage - (as per specification)	(as per specification)	connectivity at rack locations PoE Support	Network switches providing single mode fiber & LAN	(as per specification)	Network Switches at CMS required for CMS PoE support	UPS - 10 KVA	UPS - 5 KVA	UPS - 2 KVA	42" LCD TV Screen	32" LCD TV Screen	21" LCD TV Screen	Media for Backup	Laser Printer	Workstation for Mini Monitoring Station with 21" LCD	Alarm System for security alert	with media (32 Channel)	Video Monitoring & control system software	Joystick for Monitoring stations	Camera Enclosure for Above Camera	Fixed Camera	Camera Enclosure for Above Camera	PTZ Camera	DESCRIPTION	BILL OF M
425	40000	40	40			20		40	5	16	61	8	71	19	40	40	40	41		40	40	354	354	66	66	Quantity (Approximate)	TAE ATERIAL C
Per unit	Per meter	Per unit	Per unit			Per unit		Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit		Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	UNIT	TABLE - 2 AL CUM PRICE
																										MODEL	STATEM
									Total Providence State																and the second second	PRICE (RS.)	IENT
																										APPLICABLE TAX	
																										% OF TAX	
											Sector March 183															PRICE (RS.)	

39	38	37	36	35	34	33	32	ω	30	29	28	27	26	25	24	23
Hard Soil Digging with resurfacing (payment at actual)	Soft Soil Digging with resurfacing (payment at actual)	Outdoor weatherproof painted metal/High grade plastic box for mounting LAN switch & termination of Fiber/power cable at Camera Poles.	Poles for Cameras	Cable Route Markers	25 mm HDPE Conduit for entire OFC cable laying and also for Power cabling from Nearest Power Point up to Camera enclosure in separate conduits -Dual run (Reputed make - ISI Mark )	Power line, surge & Lightning protection unit for each Camera (with AC/DC converter for camera and enclosure power)	Supply of Power Cable ( as per specification/payment at actual)	Network Rack - (42U or 16 U) - (600W x 800D) for Server Room(2 Nos. Vertical PDU - 10 Socket, 1 Heavy duty tray, four fans with fan tray, Mounting hardware, Front Glass door and rear steel door)Quantity is based on assumption. L1 evaluation shall be done on the Total price quoted (including 7 years AMC charges). (as per site to be determined by the bidder)	1000 Base - LX GBIC Modules of same OEM as switches	Dual Port Face Plates with Dual CAT-6 UTP 1/O's and Back box	CAT-6 UTP 1/O's for rack Panels	Modular Jack Panels	CAT-6 - 3 Feet Patch cords	CAT-6 UTP/STP Cable Boxes (as per requirement)	SC - LC Patch Cords	SC Pigtails
20000	20000	65	150	250	40000	450	40000	40	125	125	125	40	125	125	125	600
Per meter	Per meter	Per unit	Per unit	Per unit	Per meter	Per unit	Per meter	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit	Per unit
-																

47	46	45	44	43	22	42	41	40
Additional AMC charges, year wise from fourth year onwards. Price of this charges is not be considered or qualifying as a lowest bidder. Bid for additional AMC from qualifying vendor will be acceptable.	Manpower Cost	Any item if required for realization of IP BASED SURVEILLANCE CCTV system	Labour charges for installations & commissioning (Vendor to give breakup of Labour Items considered in Technical Bid )		Distable splitting for OEC	HDPE and OFC laying on wall with clamping (payment at actual)	HDPE and OFC laying in trenches (payment actual)	HDPE and Power Cable laying in trenches (payment at actual)
				400	100	20000	20000	40000
Per year	Lump Sum	Per unit	Lump sum		Por unit	Per meter	Per meter	Per meter
			*					

- Quantity is based as per actual, vender has to survey the site thoroughly before submitting the proposal.
- Rates will be treated to be valid for a period of six months from the date of approval of bid.

# TABLE -3

20.	19.	18.	17.	16.	15.	14.	13.	12.	11.	10.	9.	8.	7.	6.	'n	4.	з.	2.	١.	SN.	
																				PARAMETERS	*
																				REQUIRED SPECIFICATIONS	
																				SPECIFICATIONS OFFERED	TECHNICAL SPECIFICATIONS
																				COMPLIANCE	
			-									-								DEVIATION	