

Receipt No.

Date:

Tender Form

Sold to SI No. Thiru.

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for Additional Director General of Prisons

PRICE BID

Tender for the Supply and Installation, Testing and Commissioning of CCTV systems and accessories to the Central Prison-2 at Puzhal, Chennai

Sl. No.	Description of machinery and equipment	Rate per item in Rs.	Rate quoted should be inclusive of Central Excise, Customs, Octroi & Delivery Fees if any in Rs.	Sales Tax in Rs.	Total cost in Rs.

The rate quoted should be inclusive of all cost of delivery at the final destination such as transportation, payment of duties and taxes leviable, insurance and any incidental services and giving the breakup thereof.

AGREEMENT

- 1 I Enclose E.M.D. for Rs. in the Technical bid.
2. I bind myself to the conditions prescribed in the tender notification / Tender conditions.
 1. I, the tenderer agree to have the Earnest Money confiscated to Government incase of failure to undertake the contract.
 2. I undertake to deposit the required security amount and execute the agreement bond within one month from the date of receipt of intimation of the Additional Director General of Prisons approving the rates, failing which I agree to bind myself and forego the earnest money and to compensate the Government for any losses that may occur due to calling for fresh tenders and to the difference on account of local purchase

Signature of the Tenderer with Full Address

NB : If the space above is not adequate separate sheet as per the format may be attached.

TAMIL NADU PRISON DEPARTMENT

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for Additional Director General of Prisons

TECHNICAL - BID

Tender for the Supply and Installation, Testing and Commissioning of CCTV systems and accessories to the Central Prison-2 at Puzhal, Chennai.

SL.NO.	NAME OF THE CERTIFICATE / ITEMS REQUIRED	Whether enclosed
1	Comparative statement of specification and the printed authorized copy of the equipment explaining the specification of the equipment item wise as per specification	Yes / No
2	Manufacturer license or Dealership / Distributorship Certificate	Yes / No
3	The turnover details for the supply of CCTV system for the past 5 years together with their clientele list, Value of Supply, Date of supply etc	Yes / No
4	The audited Statement of accounts for the past five years	Yes / No
5	Details of service centres available in Chennai.	Yes / No
6	Provide Service Manual along with Schematic / Circuit diagram	Yes / No
7	Solvency Certificate / Bank Guarantee for Rs.1,00,000/-	Yes / No

8	Sales tax clearance certificate / Returns Latest	Yes / No
9	Certificate regarding Performance of equipment from the customers to whom supply effected by the tenderer.	Yes / No
10	BIS Registration certificate if available	Yes / No
11	DGS&D Registration certificate if any	Yes / No

AGREEMENT

1. I Enclose E.M.D. for Rs. in the Technical bid.
2. I bind myself to the conditions prescribed in the tender notification / Tender conditions.
3. I, the tenderer agree to have the Earnest Money forfeited to Government in case of failure to undertake the contract.
4. I undertake to deposit the required security amount and execute the agreement bond within one month from the date of receipt of intimation of the Additional Director General of Prisons approving the rates, failing which I agree to bind myself and forego the earnest money and to compensate the Government for any losses that may occur due to calling for fresh tenders and to the difference on account of local purchase

Signature of the Tenderer with Full Address

NB : If the space above is not adequate separate sheet as per the format may be attached.

TAMIL NADU PRISON DEPARTMENT

TEMPORARY AGREEMENT BOND

The agreement made the ----- day of ----- 2009 between -----

--- hereinafter called “ the obligor” which expression shall, where the context so admits include his heirs, executors, administrators, legal representatives and (assigns) of the ONE PART and the Governor of Tamil Nadu, hereinafter called “ the obligee” which expression shall, where the context so admits include his successors in office and assigns of the other part, **witnesseth** as follows.

In consideration of the tender of the successful bid of the obligor being accepted by the Additional Director General of Prisons the obligor does hereby agree to supply the machinery and equipment to the Prisons in Tamil Nadu within three months from the date of receipt of supply orders for the following machinery & equipment as rates noted against each of them in the sealed tender sent by the obligor to the Additional Director General of Prisons subject to their approval by the Additional Director General of Prisons.

Within one month of the receipt of intimation of the Additional Director General of Prisons approval of rates, the obligor shall deposit the required security amount and execute the agreement bond.

The obligor agrees and hereby binds himself to forego the Earnest Money Deposit by him and to compensate the obligee for any loss that may occur or has occurred as a result of any failure in the part of the obligor in carrying out any of the obligations in clause 1 & 2 above.

It is agreed between the parties hereto that this temporary bond does not bind to place orders from the obligor and as the acceptance of rates is subject to the approval of the Additional Director General of Prisons.

The obligor hereby binds himself to all the conditions and stipulations published in the tender notice in pursuance of and after a perusal of which he has entered into this agreement.

In witness where of being the obligor and the acting for and on behalf and by the order and direction of the Governor of Tamil Nadu have here under set their respective hands and signed this day, month and year first above written.

Witness: -

- 1.
- 2.

Schedule of Machinery & Equipment
Signature of the Tenderer
Countersigned

TAMIL NADU PRISON DEPARTMENT

TENDER CONDITIONS

Sealed Tender for the Supply and Installation, Testing and Commissioning of CCTV system and accessories to Central Prisons -2 at Puzhal.

OOO

Notice is hereby given that the Additional Director General of Prisons, Tamil Nadu will receive sealed tenders for and on behalf of the Governor of Tamil Nadu upto 12.00 noon on 24.12.2009 for the supply and installation and commissioning of CCTV system and accessories to Central Prison –II , Puzhal ,Chennai from the Manufacturers / Distributors /Dealers. The system and accessories should be supplied to Central Prison –II, at Puzhal. The tender is on TURNKEY basis and therefore, the supply and installation and testing should be made within the stipulated date prescribed in the firm order and after satisfactory completion of the supply, installation, testing and commissioning, the payment will be released.

2] Tenders should be sent in good thick **TWO SEPARATE COVERS DULY SEALED.** one cover containing the technical bid consisting of **EARNEST MONEY DEPOSIT [EMD]** prescribed certificates, specification literatures in original company's performance report from customers as mentioned in the tender schedule to be super scribed as "TECHINICAL BID FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SYSTEM WITH ACCESSORIES" and other cover containing price bid to be super scribed as PRICE BID FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SYSTEM WITH ACCESSORIES" by Registered Post with Acknowledgement Due "or by courier service, addressed to the **ADDITIONAL**

DIRECTOR GENERAL OF PRISONS, NO.1, GANDHI IRWIN ROAD, CMDA

TOWER II, FIRST FLOOR, EGMORE, CHENNAI – 600 008

3] Tenderers who could not send their tenders by post can put their tenders in the **TWO TENDER BOXES** to be kept for the purpose, one box the **TECHNICAL BID** and other box for **PRICE BID** on the last date of receipt of the tenders at the OFFICE OF THE ADDITIONAL DIRECTOR GENERAL OF PRISON, CMDA , TOWER II, FIRST FLOOR, NO. 1, GANDHI IRWIN ROAD, EGMORE, CHENNAI -600 008 . The tenderers should drop the cover containing technical bid and Price bid separately in the box specifically provided for the purpose. Since the Price bid will be opened later, if the technical bid is inadvertently dropped in the Price bid boxes or vice versa the Department will be not be responsible for the same. These two boxes will be sealed at the closing time for the receipt of tenders in the presence of Additional Director General of Prisons. The sealed box containing technical bid will be opened at the time of opening of the tenders in the presence of the tenders and the sealed box containing the Price bid will be opened separately on the date and time to be communicated to the tenderer later. The tenderer should satisfy all the conditions prescribed in the tender condition before opening of Price bid. The Price bid of the tenderers who satisfy all the conditions including satisfactory demonstration of the equipment alone will be opened at the prescribed date and time

4] **DELIVERY OF TENDER IN PERSON WILL NOT BE ACCEPTED** on any account under any circumstances and the tender submitted after the last date and time will not be accepted under any circumstances.

5] The slit of the tender boxes shall be 28 CM x 3 CM and therefore, the cover should be brought of suitable size to move inside the slit.

6] Tenders will be accepted by the Additional Director General of prisons, Tamil Nadu, acting for and on behalf of and by the order and directions of the Governor of Tamil Nadu, From time to time.

7] Tender form and connected document may be obtained from the Office of the Additional Director General of Prisons, Chennai up to 05.00 p.m. on 23.12.2009 on payment of the prescribed cost of Rs.6,000/- plus VAT @ 4%. The Tenderers who are willing to obtain the tender form by post should pay Rs. 60/- in cash additionally towards postage, The Department will not undertake any responsibility for the delay in transit for the receipt by tender form by the tenderer **NO CHEQUE / DRAFT WILL BE ACCEPTED TOWARDS THE COST OF TENDER FORM.**

8] Temporary agreement bond, which will be supplied along with the tender forms, duly filled in and signed by the tenderer with two witnesses and counter signed by the Gazetted Officers or Notary Public should be enclosed with the tender.

9] The rate should be quoted for each item , in whole rupees and not in fraction of paise, both in figures and in words for delivery at the respective premises and should be inclusive of all cost of delivery at the final destination such as transportation payment of duties , taxes leviable, insurance, accessories for electrical/ electronic items, switches, electrical appliances, implements etc wherever required , charges towards installation and commissioning of the entire CCTV system with all accessories. peripherals air conditioners etc, partitions in the control room and any other incidental services required . The breakup on tax component should be shown

separately. The unit for which the rate is quoted should be clearly mentioned together with the total value of the items in the relevant columns of the tender forms. Rate should be quoted only for the unit mentioned in the Schedule or otherwise the tender for the particular item is liable for rejection. The rate quoted should be valid for not less than 120 days.

10] In case of difference in the cost mentioned in figures and words, the cost mentioned in words will be taken as final.

11] All the sealed tenders containing the Technical bid / received within the prescribed time and date will be opened by the Additional Director General of Prisons on 24.12.2009 at 01.00 PM in his office at Chennai Metropolitan Development Authority Tower II, 1st floor, No. 1, Gandhi Irwin Road, Egmore, Chennai – 600 008. The Price bid will be opened after evaluating the Technical bid and all those who are qualified in the technical bid shall be intimated in due course about the date and time of opening of the Price bid.

12] Each tenderer should give an undertaking along with his tender, to the effect that he has made his tender abiding by all the tender conditions prescribed in the Tender Notice and that the rates tendered are for the item as specified in the Schedule and no plea will be put forward later that the rates quoted are for a different specification. He should also send with his tender and the tender conditions **(issued by the Department)** duly signed by him on every page in token of having agreed to them.

13] Such of the tenderers or their representatives who wish to be present at the time of opening of tenders may do so. Tenderers who are not able to be present

at the time of opening of tenders and wishing to depute their representative should send a letter of authority along with their representative to be present at the time of opening of tenders.

14] The EMD of Rs.17110/- to accompany the Technical Bid should be paid into a Government Treasury in favour of the Additional Director General of Prisons to which the tender relates under the head “ SECURITY DEPOSITS ” and challan (S) in support of remittances sent along with the tender. The Earnest Money deposit will also be accepted in any other form of security inclusive of small saving scripts/Deposits/ Accounts / Demand drafts / Bankers Cheque / Indra Vikas Patras or irrevocable bank guarantee in the prescribed form. The Earnest Money Deposit should be pledged in favour of Additional Director General of Prisons, Chennai. The EMD will be refunded after successful installation / supply of the equipment on turnkey basis. The Earnest money deposit received from successful tenderers will be retained until the security deposit is paid and agreement executed, and the same received from others will be returned in due course. If there is any doubt about the correctness of the form of earnest Money Deposit, the matter will be decided by the Additional Director General of Prisons and his decision in the matter is final.

15] Technical bid will be evaluated by adopting the following criteria.

1. The equipment quoted should match the specification prescribed in the Tender Schedule. A comparative statement of the prescribed specification and the specification of the equipment for the which the rates quoted together with the details of specification of CCTV system with accessories should be attached.

- ii. Must be a manufacturer /dealer/ distributor of the equipment . The Original Certificate from the Principal for the same should be furnished .
- iii. The Company should be in the field of supply, installation , testing and commissioning of CCTV system for the past five years. Necessary proof for the same should be furnished.
- iv. The equipment should not be made in China, Taiwan, Korean, Malaysia.
- v. The Company should have transacted for more Rupees One Crore per year for the last three years. Necessary documentary proof for the same be furnished.
- vi. The details of service facilities available in Chennai should be furnished. Necessary proof for the same together with the address and phone Nos. of the service centres should be furnished.
- vii. The company should obtain a performance certificate addressed to Additional Director General of Prisons from 3 or 4 important customers using their equipment and which are being maintained by the company.
- viii. The company should furnish copies of performance reports of the functioning of CCTV equipment supplied by the tenderer to various firms along with their tender.
- ix. The tenderer should give a demonstration of their equipment at the place mentioned by Additional Director General of Prisons for which they have to make their own arrangements to bring the equipment

16] Therefore, the technical bid should contain the following documents for evaluation

1. Comparative statement of specification and the printed authorized copy of the equipment explaining the specification of the equipment item wise
2. Manufacturer license or Dealership/ Distributorship certificate
3. The turnover details for the CCTV system for 5 years together with their clientele list, Value of supply, Date of Supply etc
4. The audited statement of accounts for the past five years.
5. Details of service centres available in Chennai
6. Solvency certificate / Bank Guarantee for Rs.1,00,000/- (Rupees One Lakhs)

17] In addition to the above the following certificates if available may be furnished.

- i. Those registered with BIS should furnish BIS Certificates
- ii. Those registered with DGS&D rate contract should enclose a certificate to this effect.

18] Failure to furnish a receipted chalan or in any other form of security inclusive of small savings scripts/deposits/accounts India Viaks Patras demand drafts, bankers Cheque on irrevocable Bank Guarantee (if procuring entity deem fit) towards the Earnest Money deposit along with the tender will be a disqualification and such tenders will be rejected.

19] Co-operative Institutions are exempted from payment of Earnest Money deposit only. They have to remit the tender fee towards the cost of tender documents and also security deposit as per Government orders in force.

20] The company /manufacturer may authorize one of the best dealers who quote the best rate and issue necessary authorization in this regard.

21] A tenderer may incur disqualification if the required certificates are not produced and such tenders will be rejected.

22] The tender will be evaluated on the basis of the specification and the lowest rate offered in the tender. The domestic small scale industrial units will be allowed

15% price preference and Public Sector undertakings of the Government 10% price performance in respect of products and quantities manufactured by them.

23] The successful tenderer will be required to remit the security deposit equivalent to 5% of the value of the purchase order in the form of demand draft, or banker cheque or specified small savings instruments or irrevocable bank guarantee in the prescribed form within fifteen days from the date of receipt of communication/intimating the acceptance of the tenders. If the successful tenderer fails to remit the security deposit within the said period, the Earnest Money Deposit remitted by him will be forfeited only after the remittance of the security deposit.

- a. The security deposit furnished by the tenderer in respect of his tender will be returned to him upon the complete fulfillment of the tender to the satisfaction of the department .
- b. In case of successful tenderer, the Earnest Money Deposit may be adjusted towards security deposit payable by him
- c. If the tenderer fails to act up to the tender or backs out when his tender is accepted, his security deposit will be forfeited to the Department apart from initiating action to blacklist the firm from having any further dealing with Government.

24] One the tenderer has offered his /her/their rates fro and article or for some articles or for the whole item, in no case, after the opening of the tender, any of the tenderers will be permitted to withdraw the tendered rates, unless and until the acceptance of rates offered by one of the tenderers is ordered . If any tenderer desires to withdraw after opening of the tender and before the acceptance , the EMD is liable for forfeiture.

25] If after the acceptance of any offer , such tenderer is not willing to carry out his /her/their/ obligations , not only the Earnest Money deposit will be forfeited , but he/she/ will be liable to pay such damages as any be incurred by such failures. The additional Director General of Prisons reserves the right to forfeit the Earnest Money Deposit in all above mentioned cases, without assigning any reason.

26] The Additional Director General of Prisons reserves the right to accept or reject in whole or in part, any tender without assigning any reason.

27] The Additional Director General of Prisons also reserves the right to reject the conditional tender without assigning any reason and conditional tenders will be summarily rejected.

28] The Additional Director General of Prisons reserves the right to cancel the contract without assigning any reason.

29] No advance of cash will on any account be made to the successful tenderer, when placing orders nor will the prison pay any freight or other charges on consignments to be afterwards deducted from the bills, but payments for articles delivered at the prison, on order will be made in accordance with the terms of Agreements, Payment will be made only after satisfactory supply, installation, testing and commissioning in Prisons against the orders placed subject to the exception specified in the tender document.

30] The tender will be evaluated by a committee based on the criteria mentioned in the tender conditions.

31] There shall be two monitoring points in each prison

32] The Tenderer shall submit in triplicate the following general arrangement drawings within a fortnight of the award of work for the department approval.

a] Location of cameras and the control room in each prison

b] Video / Data / Power Cable routing

c] Construction details of various items.

d] Room –preparation diagram shall be provided

33] All the components of CCTV system shall be new and suitable for the environment of installation of site.

34] The camera shall be available in wall mount, roof (parapet) mount, tower mount, mast (post) mount, corner mount and pipe mount versions, as the application require, necessary drawings showing the furniture details, partition design in control room etc along with the type of item to be used shall be got approved by this Department before executing the work.

35] The tenderer shall enclose a letter from the manufacturer indicating that the equipments quoted by the tenderer are in the current line of production and that the manufacturer will offer service support by the way of spares at least for a further period 10 years.

36] On completion of installation, testing and commissioning, the equipments will be tested for establishing their performance vis-A-vis the accepted specification.

a] All the functions of the camera, PC, monitor, joystick, network video server as specified in the tender and contract finally accepted.

b] Part/ Tilt head with respect to the limit of movement and speed.

c] Motorized Zoom lenses with respect to minimum and maximum focal length illumination levels.

37] All the equipments offered shall be suitable for operation from 0 degree to 55 degree C and relative humidity ranging from 0% to 95% (non – condensing)

38] Training shall be provided to a team to Prison officers and staff on the operation & maintenance of the system. Necessary service manual and layout drawings in duplicate shall be supplied on completion of the work.

39] A minimum warranty of 5 years from the date of handing over the system in mandatory and will form apart of contract. The equipment offered shall be guaranteed for satisfactory performance against all manufacturing defects. Items found defective during the warranty period will be replaced free of cost. All the parts supplied/ replaced/ fitted during the warranty period shall not attract any shortage, transport etc. Comprehensive AMC rates beyond the warranty period is to be indicated.

40] The power for the CCTV system now tendered for Central Prison-2 Puzhal shall be made available through a UPS with backup for at least One hour. The UPS with backup devices shall be within the scope of the tenderer.

41] All the equipments offered shall be suitable for operation on 230V+10% 50 c/s + 6 % single phase power supply.

42] Tenders, which do not satisfy any of the conditions mentioned above are liable to be rejected.

43] PAYMENT CONDITION : (a) 90 % of the total cost of the equipments will be paid on installation, commissioning and handing over the equipments after satisfaction of the respective officers .

(b) The balance 10 % will be retained during the warranty period as performance guarantee and will be paid after the successful completion of warranty, alternatively if the tenderer gives an irrevocable Bank guarantee in lieu of the balance 10% the purchase shall reserve the right to accept the same.

44] If artificially low rates are tendered Government will not consider any subsequent claim for compensation. The contractors are advised to satisfy themselves that the rates tendered by them are for the machinery & equipment for which the tenders have been invited. Requests from tenderers/ contractors claiming some pretext or the other during the current period of contract will not be entertained under any circumstances

45] No action will be taken by this department to procure license or permits or Railway priorities or duty exemption or any tax relief.

46] In case the tenderer after taking the contract is not willing to carry out his agreement, his security deposit will be forfeited to Government . The contractor is also bound to make good to Government any loss which may arise from his failure or due to government having to purchase the articles specified in the contract in the local market or elsewhere at the rates higher than the contract rates.

47] If the tenderer fails to pay any due to Government during the execution of the contract. and if he does not respond favourably to the demands made by the department, to pay the said dues the amount will be recovered from him by invoking the relevant provisions under the Revenue Recovery Act.

48] Any over writing or correction in the tender should bear the initials of the tenderer . If any item or article in the tender is left blank , a blank line in ink should be drawn across it.

49] Contract should not be sublet. The tenderer, if applying on behalf of the firm to which she/he is a partner, must disclose the name of the firm and the names of the partners and he/she must also enclose the partnership to apply and commit them to the terms of the contract that may be ultimately entered into.

50] Any other conditions which the Additional Director General of Prisons may deem fit and proper will be imposed a the time of placing orders.

Sd/-

Additional Director General of Prisons

TAMIL NADU PRISON DEPARTMENT

Technical Specifications for the different Components

1. Indoor Day Time Fixed IP-Camera with accessories

Image Sensor	Progressive Scan Megapixel CMOS
Light Sensitivity	1-10000 lux or higher
Video Compression	Motion JPEG and MPEG-4
Resolution	Upto 1280 x 1024 pixels
Frame Rate	Up to 14 fps in 1280 x 1024 pixels
Video	PAL, Simultaneous Motion JPEG and MPEG-4
Lens	Auto focus, Varifocal (3.0 – 8.0 mm)
Audio Support	Two way
Memory	32 MB RAM, 4 MB Flash
Security	Multiple user access levels with password protection IP address filtering, HTTPS encryption
Event Management	Motion detection
Connectors	Ethernet 10BaseT/100BaseTX, RJ-45
Protocols	TCP/IP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS and DHCP
Accessories	Mounting bracket, indoor housing
Interface	Wired
Power over Ethernet	Built-in

2. Outdoor Day & Night PTZ IP-Camera with accessories

Lens	Auto focus / auto iris with 18x optical zoom
Illumination	Day/night functionality with images down to 0.3 lux (colour)
Memory	32 MB RAM, 4 MB Flash
Video Compression	PAL, Simultaneous Motion JPEG and MPEG-4
Frame Rate	Up to 30/25 fps in all resolutions
Pan/Tilt/Zoom with support for Joystick and Preset Positions	Pan: 360° endless (Max Speed: 360° /s) Tilt: 90° (Max Speed: 360° /s)
Audio Support	Two-way
Event Management	Motion detection
Connectors	Ethernet 10BaseT/100BaseTX, RJ-45
Protocols	TCP/IP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS and DHCP
Security	Multiple user access levels with password protection IP address filtering, HTTPS encryption
Accessories	Mounting brackets, Outdoor housing unit
Power over Ethernet	Built-in

3. Client PC for Video Storage

Processor	Intel Core 2 Duo 3GHz, or Higher
Motherboard	Based on Intel chip
Memory	2 GB DDR2 RAM or higher
Disk system	2 x 500 GB 7200 rpm SATA Hard Disk Drive
DVD/CD	DVD Writer
Network	Integrated 10/100/1000 Mbps Ethernet interfaces
Display	Integrated SVGA controller 19" TFT monitor
Ports and accessories	1 serial, 1 parallel and 4 USB 2.0 ports, Optical mouse with scroll button, Stereo speakers, microphone, 2 PS2 ports for Keyboard/Mouse, 104 Mechanical Keyboard
Chassis	Micro ATX Chassis with 150 Watts power supply
Preloaded Operating System	Windows XP Professional with SP2 updated / Windows Vista Premium
Anti Virus Software	Antivirus software for the OS
Warranty	3 Years onsite warranty

4. Client PC for Monitoring

Processor	Intel Core 2 Duo 3GHz, or Higher
Motherboard	Based on Intel chip
Memory	2 GB DDR2 RAM or higher
Disk system	2 x 500 GB 7200 rpm SATA Hard Disk Drive
DVD/CD	DVD Writer
Network	Integrated 10/100/1000 Mbps Ethernet interfaces
Display	Integrated SVGA controller 19" TFT monitor
Ports and accessories	1 serial, 1 parallel and 4 USB 2.0 ports, Optical mouse with scroll button, Stereo speakers, microphone, 2 PS2 ports for Keyboard/Mouse, 104 Mechanical Keyboard
Chassis	Micro ATX Chassis with 150 Watts power supply
Preloaded Operating System	Windows XP Professional with SP2 updated / Windows Vista Premium
Anti Virus Software	Antivirus software for the OS
Warranty	3 Years onsite warranty

5. LCD Display Panel

LCD Display 40 "
15000:1 Contrast
1920 x 1080 Resolution
8ms Response Time
HDMI, Composite(AV), S-Video Input & Output
RS232C port
Remote Control/PIP & PBP
Wall Mount

6. Joystick

Three Axes Control – X/Y for positioning: Z for zoom in and out
Programmable push-buttons
USB Connectors
Power Via USB interface
Supported Protocols: USB 2.0, Direct X
Application support for the Video Management Software to be supplied
System Integration with Windows XP Professional / Windows Vista Premium

7. Video Management Software (Server)

Simultaneous Viewing, digital Recording and Playback from multiple cameras
Support for JPEG images and MPEG streams
Video Motion Detection (VMD) activated recording with speed-up on motion
Multiple Recording Modes: Continuous, Scheduled and on Motion Detection
Quick and simple searching on images based on date/time, activity, zone and objects
AUDIO: Full duplex real time audio support
Joystick support
Export in JPEG, MPEG, AVI, WAV and DB formats, Evidence CD, data encryption & logs, user notes, print reports
Individual User Profiles, Password Protection, logging of user actions by time, locations and cameras
Database archiving options
Remote client support and Web Interface

8. POE enabled 16 Port Switch : 10 /100 Mbps

9. POE enabled 8 Port Switch : 10 /100 Mbps

Online UPS 3 KVA 3 KVA online, with rack mounted SMF batteries for 60 mts. Backup

Site Preparation for installing and operating IP-Surveillance Components
Main Control Rooms should be prepared with the following requirements-

Air Conditioning

Suitable Furniture

False Ceiling

Partitions

Network cables should be run in PVC pipes in outdoor locations

Power cables should be run in PVC pipes

Power sockets should be provided near all equipments (computer, camera, network switches, communication devices) from the nearest UPS.

Masts should be provided to mount the cameras and communication equipments.

Requirement for Main Control Rooms

<u>Name of Work</u>	<u>Specification</u>
Partitions – Portion of room to partitioned	15' x 15'
Air conditioning	1.5 ton Window
Suitable Furniture – for monitoring room with Personal computer	Table -4 ½ x 3' x 3' with 3 drawers Chair – Nylon wire seated revolving chair with arm rests
False Ceiling	15' x 15' with proper lighting arrangements