

No.BBS-20/WT-Proc/2016-

The Assistant Director, Subsidiary Intelligence Bureau, (MHA), Government of India, Bhubaneswar invites sealed tenders for the items as mentioned in the tender documents given below. Tender document may be down loaded from MHA's Website. However, a demand draft of **Rs. 1000/-** drawn in favour of **DDO, SIB, Bhubaneswar** must be submitted along with the quotation as cost of tender documents, in absence of which the quotation will not be considered.

Assistant Director
SIB, Bhubaneswar

TENDER DOCUMENT

No. BBS-20/WT-Proc/2016
SIB, (MHA)
Government of India,
Bidyut Marg, Unit-V
Bhubaneswar - 751001

FORM-241

INVITATION TO TENDER

SIB, (MHA) Government of India
Bidyut Marg, Unit-V,
Bhubaneswar-751001

Tender Enquiry No. BBS-20/WT-Proc/2016 for
CCTV System

Date 04.10.2016

To,

Dear Sir,

1. You are invited to offer tender for supply of stores as per details given in the schedule to this enquiry.
2. The conditions of the contract which will govern any contract made are contained in Pamphlet No DGS&D-36 entitled "Conditions of contract governing contracts, placed by the Central Purchase Organization of the Government of India as amended up to 31-12-1991 and those contained in the Pamphlet No DGS&D-229 containing various instructions to tenderer quoting against the tender enquiry issued by the DGS&D.
3. The above mentioned pamphlets and the list of amendments thereto can be obtained on payment from the under mentioned officers:
 - a. The Manager of Publications, Civil Lines, Delhi.
 - b. The Superintendent, Government Printing and Stationary, UP, Allahabad.
 - c. The Superintendent, Government Printing and Stationary, Mumbai.
 - d. The Superintendent, Government Press, Chennai.
 - e. The Superintendent, Government Printing and Stationary, Nagpur.
 - f. The Superintendent, Government Printing, Gulzarbag, Patna, Bihar.
 - g. DGS&D, New Delhi and its regional Offices at Mumbai, Chennai and Kolkata.
 - h. Government of India Book Depot, 8 Hasting Street, Kolkata.
4. The following certificate should be given in the request
"it is certified that our concern / establishment require the copy of the specification and other details in connection with tender enquiry No.BBS-20/WT-Proc/2016. It is further certified that the information contained in the document will be utilized by our concern / establishment for own use only for the purpose of producing supplying inspection of stores. The information contained therein will not be divulged / supplied to any outside agencies not authorized to the same without prior approval of the issuing authority."

- 11 **Security Deposit** An amount equivalent to 5% of the value of supply order/AT to be deposited by the successful bidder. Security deposit may be paid in the form of Bank Guarantee or Demand Draft drawn in favour of DDO, SIB, Bhubaneswar to remain valid till the completion of supplies and deposit of performance guarantee by the successful bidder.
12. **Performance Guarantee** An amount equivalent to 10% of the value of supply order/AT to be deposited as performance bank guarantee at the time of supplies in the form of Bank Guarantee or Demand Draft in favour of DDO, SIB, Bhubaneswar to remain valid till two months after expiry of warranty period.

CONDITIONS REGARDING DEPOSIT OF EARNEST MONEY

- 1 All firms are required to deposit EARNEST MONEY of **Rs.10,000/- (Rupees ten thousand only)**. NO PUBLIC SECTOR UNIT OR JOINT SECTOR UNIT IS EXEMPTED FROM PAYING EARNEST MONEY.
- 2 The Earnest Money can be deposited in any one of the following alternative forms
 - a. A crossed bank draft drawn in favor of DDO, SIB, Bhubaneswar payable at Bhubaneswar.
 - b. An irrevocable bank guarantee of any nationalized Schedule Bank or reputed commercial bank of the tender country in the PROFORMA attached.
- 3 The Earnest Money shall be valid and remain deposited with the Purchaser for a period of Six months from the date of opening the tender. If the validity of the tender is extended, the validity of the BG or any other document submitted in lieu of EMD will also be suitably extended by the tenderer, failing which the tender after the expiry of the aforesaid period shall not be considered by the Purchaser.
- 4 No interest shall be payable by the Purchaser on the EM deposited by the tenderer.
- 5 The EM deposited is liable to be forfeited if the tenderer withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his tender.
- 6 The Earnest Money of the successful tenderer shall be returned after the award of contract.
- 7 Earnest Money of all unsuccessful Tenderers will be returned by the Purchaser as early as possible after expiry of the bids validity and placement of contract. Tenderers are advised to send a pre-receipted challan along with their bids so that refund of EM is made in time.
- 8 Any tender not accompanied with Earnest Money in one of the approved forms acceptable to the Purchaser, shall be rejected.

Enclose with Technical Bid

P R O F O R M A FOR EARNEST MONEY
P R O F O R M A OF BANK GUARANTEE FOR EARNEST MONEY
(On non-judicial Stamp paper of requisite amount)

Bank Guarantee No.....

To,

The DDO,
Subsidiary Intelligence Bureau,
(MHA), Govt. of India
Vidyut Marg, Unit-V.
Bhubaneswar

Dear Sir,

In accordance with your invitation to tender **No. BBS-20/WT-PROC/2016-**,
M/s. hereafter called the tenderer with the following Directors on
their board of Directors/Partners of the firms

1
2
3
4

wish to participate in the said Tender for the supply of stores for SIB, Office,
Bhubaneswar.

As Bank Guarantee against Earnest Money the sum of **Rs. 10,000/-**
valid for Six Months from the date of opening of the Technical Bids, is required to be
submitted by the tenderer as condition for the participation, this bank hereby
guarantees and undertakes during the above said period of Six months to
immediately pay on demand by Account Officer (M),I.B (Ministry of Home Affairs)
writing the amount of Rs **10,000/-** without any reservation and recourse if:

- i. The Tenderer after submitting his Tender modifies the rates or any of the terms and conditions thereof, except with the previous written consent of the Purchaser.
- ii. The tenderer withdraws the said Tender within Six months after opening of tender
Or
- iii. The Tenderer having not withdrawn the tender fails to furnish the contract security deposit imposed for the performance of the contract within the period provided in the general conditions of contract.

The Guarantee shall be irrevocable and shall remain valid up to **six months.**
If further extension to this guarantee is required the same shall be extended to such
required period on receiving instructions from M/s. _____ on
whose behalf this guarantee is issued.

Date _____ Signature _____

Place _____ Printed Name _____

Witness _____ _____

1. _____

(Designation)

(Banks Commercial Seal)

DGS&D Amendments

ANNEXURE-I

- 1 The following amendments may be carried out in the pamphlet entitled conditions of contract governing the contracts place by Central Purchase Organization of Government of India 1991 addition bearing Symbol DGS&D-39 Form No DGS&D-68 (Revised)
- 1.1 The definition Government provided in clause 1 (f) page 2 of DGS&D conditions of contract may be amended as under:
- 1.2 The definition of Secretary clause 1(k)-page 3 of DGS&D Conditions of Contract may be modified as under:
"Secretary" means Secretary ministry of Home Affairs for the time being in the administrative charge of subject mater of contract and included Additional Secretary, special secretary, Joint Secretary or Director or Deputy Secretary in such Ministry, and every other officer authorized for the time being to execute contracts relating to purchase and supply of stores on behalf of the President of India.
- 1.3 Under clause(c)-page 5 of DGS&D Conditions of Contract the word Director General of Supplies & Disposal or Head of concerned regional offices may be replaced by Purchaser.
- 1.4 Clause 24 i.e. Arbitration:
For the existing entries.

READ ARBITRATION

In the event of any question, dispute or difference arising under these conditions or any special conditions of contract, or in connection with this contract (except as to any matters, the decision of which is specifically provided for by these or the special conditions), the same shall be referred to the Sole Arbitration of an officer to be nominated by Ministry of Law and appointed by the Secretary, Ministry of Home Affairs. It will be no objection that the Arbitrator is a Government Servant that he has to deal with the matters to which the contract relates or that in the course of his duties as a government servant he has expressed views on all or any of the matters in dispute or difference. The award of the Arbitrator shall be final and binding on the parties to this contract, it is term of this contract that:

- a. In the event of his dying, neglecting or refusing to act, or resigning or being unable to act, for any reason or his award being set aside by the Government for any reason, it shall be lawful for the secretary, ministry of home Affairs either to proceed with the reference himself or to appoint another person as Arbitrator. In every such case, it shall be lawful for the Secretary, Ministry of Home Affairs in place of the outgoing Arbitrator, as the case may be to act on the record of the proceedings as then taken in the arbitration, or to commence as then taken in the arbitration, or to commence the proceedings de novae, as he may at his discretion decide.
 - b. It is further a term of this contract that no person other than the Secretary, Ministry of Home Affairs or the person appointed by him should act as Arbitrator and that if for any reasons that is not possible, the matter is not to be referred to arbitration at all.
 - c. The arbitrator may with the consent of all the parties to the contract enlarge the time from time to time for making and publishing the award.
 - d. Upon every/any such reference, the assessment of the cost incidental to the reference and award respectively shall be in the discretion of the Arbitrator.
 - e. Subject as aforesaid, the Arbitration Act 1996 and rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply the arbitration proceedings under this clause.
 - f. The venue of arbitration shall be the place where the contract is concluded or such other place as the Secretary at his discretion may determine.
 - g. In this clause the expression the Secretary, Ministry of Home Affairs, for the time being and includes, if there be no Secretary, the officer who is for the time being the administrative head of the Ministry of Home Affairs whether in addition to the other functions or otherwise.
- 1.5 Similarly the reference to DGS&D wherever appearing may be suitably modified.

2. Following amendments may be carried out in the Pamphlet No DGS&D-229 containing various instructions to tenderer.
Form No DGS&D-230
Reference to DGS&D wherever appearing in clauses No 14, 33, 34, 35, 39 and 40 and Appendix 'A' for form No DGS&D 096 may amended to read as Purchaser.
3.
 - (i) This contract shall be governed by the laws of India for the time being in force.
 - (ii) Irrespective of the place of delivery, the place of performance or place of payment under the contract or the place of issue of advance intimation of acceptance of tenders, the contract shall be deemed to have been made at the place from where the tenders have been invited.
 - (iii) Jurisdiction of Courts: - The courts of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.
 - (iv) Marking of stores: - The marking of the stores must comply with the requirement of the last relating to Merchandise Marks for the time being in India.

The offer must fulfill and comply following special conditions:

Special Conditions will supersede the conditions mentioned elsewhere in the document. Wherever applicable these conditions will over ride the conditions mentioned elsewhere in the document.

1. **CONFIDENTIALITY:** The purchase of sub-systems in this tender is related to a classified project of the Government of India. All bidders are requested to maintain confidentiality and not to disclose / part or share any information / program of tender processing with any person or party not authorized by tenderer or directly related with the project.

End user name and address should not be disclosed to any of the sub-contractors, suppliers to bidder for bought out items. Where ever necessary End user's name may be given as Assistant Director, Subsidiary Intelligence Bureau (Ministry of Home Affairs) Govt. of India, Bhubaneswar.

Relevant portion of Technical specifications of various items may be given to your supplier for bought out items, without disclosing complete configuration and other information. **Any information related to the project, including your participation in tender may not be published or advertised for any purpose.**

Any failure or lapse in maintaining confidentiality on the part of bidder will be dealt as the breach of confidentiality.

2. **SUBMISSION OF BID:** The offer must be prepared in two parts viz., 'Technical Bid' and 'Price Bid'.

Technical bid- must include, eligibility documents, Earnest Money, Technical compliance as per tender document along with soft copy in tabular form, make and model number of sub-units / systems, specifications and literature / leaflets of the equipment offered, commercial terms and conditions **excluding price and its break-up**. Technical bid must include unpriced bill of material, a brief description of each and every item offered, giving detailed configuration and description. Technical bid must be sealed in a cover clearly marked as 'Technical Bid', **tender number and date / time of opening the bid**.

PRICE BID- must include total cost of the offer, cost break-up of each equipment, taxes and duties with prevailing rates, which are proposed to be charged strictly on the prescribed proforma given in the Tender document. Price Bid must be sealed in separate cove with clear marking 'Price Bid' and Tender Number.

Both technical Bid and Price Bid envelopes may be placed in another sealed cover. Tender enquiry number, date, time of opening and contents therein should be marked on the top of the cover. The cover should be addressed to The Deputy Director, SIB(MHA) Govt. of India, Bidyut Marg, Unit-V, Bhubaneswar-751001.

Only Technical Bids will be opened on the date and time mentioned for tender opening. The firms who qualify technically may be asked for demonstration of any identified critical sub-systems. The purchaser will decide technical suitability after demonstration of identified critical sub-systems at Bhubaneswar. Price bids of technically and commercially acceptable offers will only be opened. Date and time of Price bid opening would be intimated to eligible Bidders, later.

- 3 **All systems and equipment supplied must be ISI marked or manufactured as per International Standards (ISO) meeting CCITT or CCIR standards and fulfill other requirement of local authorities like noise pollution, environment etc.**
4. The supplier should guarantee that all items would continue to conform to the description and quality aforesaid for a period of 36 months from the date of complete installation of the system. This guarantee must be all-inclusive. In the event of failure of a sub-unit(s), it must be repaired within 6 hours of reporting the fault by purchaser to the supplier, failing which a penalty @ 1% of the cost of faulty equipment per day, subject to a ceiling of 5%, will be deducted from Performance Guarantee.
- 5 **AFTER SALES SERVICES:** Contractor must have adequate infrastructure and stock of spare parts (other than the spares purchased by the indenter) to offer repair and maintenance support for full lifetime of equipment. The bidder, if not the manufacturer, should submit a certificate from the manufacturer that equipment supplied including spares would be available during the lifetime of the equipment. Contractor should include in their offer comprehensive site maintenance support on **Annual Maintenance Contract** basis, after expiry of warranty. However, AMC offer will not be a deciding factor for awarding of contract but would be considered separately afterwards. Terms of AMC should be same as during the warranty.

6. **PAYMENT TERMS:**
 - I. 90% on successful supply, acceptance at site by the purchaser, successful installation, testing and commissioning of complete systems.
 - II. 10% ON SUCCESSFUL FUNCTIONING OF SYSTEM FOR EIGHT WEEKS and furnishing of required performance guarantee of equal amount by the supplier, to remain valid till two months after expiry of the warranty.
7. **TRAINING:** - Tenderers should provide training in operation and maintenance for the purchaser's staff and officers at manufacturer's site / equipment installation site.
8. **LATE DELIVERY:** - implementation is including supplies, testing, and installation and commissioning of total network should be completed within the mutually agreed time schedule. In the event of delay in implementation for any reason, the purchaser would be entitled to charge LD penalty @ 0.5% of the cost of total Purchase Order per week or part thereof, subject to a maximum of 5%. In the event of delay of more than 10 weeks, purchaser will have the right of revoking the purchase order and forfeiting the Security Deposit.
9. The Purchaser reserves the right of accepting or rejecting any or all the tenders.
10. Successful bidder will have to deposit security money equal to 5% of the total value of supply order before issue of AT/Supply order by the purchaser. The performance security money may be deposited in the form of Fixed Deposit Receipts, Bank Guarantee or demand draft. The performance security deposit should remain valid up to two months after expiry of warranty period. Thereafter it would be returned.
11. **Eligibility-**
 - i. Tenderer must be an authorized dealer / representative of OEM for more than a year or should submit an authorization from OEM, who has their representation in India for more than one year, to participate in bid. The bidder should produce an undertaking from OEM in the name of purchase that the OEM should provide support and spares directly for the offered system for lifetime of the equipment. Further the OEM should confirm in writing that the offered system is latest being manufactured and marketed by them. Documentary proof in this regard may please be enclosed with technical bids.
 - ii. Tenderer must have executed at least one contract / supply of similar quality and quantum (at least Rs. 15 Lakh) within the past two years. Documentary proof in this regard may please be enclosed.
 - iii. Tenderer must enclose an undertaking stating that he or his firm has not been debarred from bidding by any government organization.
 - iv. Tenderer should have a minimum annual turnover of Rs.1 crore for the last three years. Copies of supporting documents like Annual Balance Sheet, Audited Annual Report or supplies/contracts executed in previous three years may be enclosed.
 - v. Tenderer must be able to provide onsite maintenance support.
12. The bidder should respond to each section. Point or requirement within the tender enquiry. If needed, the successful bidder may be asked to execute repeat order to the tune of 25% of the original order.
13. **System Acceptance at site** – Supply, installation, testing, configuration and successful commissioning will be validated by the purchaser before final acceptance at site.
14. Enclosed check list at Annexure-IV, duly filled in, must be furnished along with tender document.

Proforma for submission of Price Bid

Sl. No.	Description of unit/item/sub-system	Qty	CIF Rate Per unit	Custom Duty						Sub-Total -1	Excise Duty		Sub-Total -2	Sales Tax		Sub-Total -3	Freight Insurance & other incidental charges		Unit Charge Including taxes
				CD	Amount	CVD	Amount	SAD	Amount		Rate	Amount		Rate	Amount		Rate	Amount	

TECHNICAL SPECIFICATIONS OF THE CCTV SYSTEMS FOR THE OFFICE PREMISES OF
SIB, BHUBANESWAR

General

Reputed installers having requisite experience in field of security are invited to quote IP/General CCTV system of **standard make**, which conforms ISO 9001, EN29001/UL, CE and FCC Certifications. The manufacturers and software developers should have ONVIF compliance for the interoperability of cameras and software. ONVIF conformity certificate to be provided. All the equipment and accessories should be rack mounted, capable for running the system 24x7 at operating temperature -5°C – +50°C and the environmental conditions prevailing at sites. The OEM should have office in India. OEM should be in manufacture of CCTV cameras at least for last 5 years.

System Design: -

1. Each camera should be connected to hardware through CAT-6 or better cable, which shall support minimum dual stream.
2. IP camera should be capable of producing streams @25fps for each camera for viewing on LAN and on monitors and also recording into NVR and RAID-5 backup devices @ 25 fps or lower frame rate, user selectable as per requirement, for each camera.
3. Power Over Ethernet (POE) compliant and connected to manageable switch as per system design using UTP Cat-6 cable or OFC using standard brand of connectors. Facility of viewing all the cameras and controlling at various other remote locations as required shall be provided.
4. The control room shall have a control system with video control software to manage all the video surveillance devices.
5. NVR/DVR shall keep track of all configuration and events to help in proper system administration and management of redundancy etc. However preference is to be given to NVR.
6. The system should provide suitable **Network Management System (NMS)** for Network Health Monitor with alarm for any camera fault, power loss, signal loss etc. It shall facilitate on screen display to log all type of faults and alert alarms to the operator with day, date and time.
7. The system shall have the facility to export the desired portion of clipping (from a desired date/time to another desired dated/time) on any client/network storage device. Viewing of this recording shall be possible on standard PC using standard media player. The system shall be able to export sections of recordings to a separate folder, which can then be written to CD, DVD or Tape media to be played back using Windows Media Player at a location not connected to the system network.

8. The system shall be responsible for restarting the application or as a last resort, restart the NVR/DVR in case of malfunction of software components.

9. **The capacity of the storage should be minimum for 30 days of recording of all camera on FIFO basis at each location @ 25 FPS at 4CIF.**

10. Bidders will submit the Technical Bids along with un-priced BOQ with complete make and model of the entire items quoted in the Bid. The bidders will submit consolidated price of the items eg Optical Fibre Cable, Power cable, CAT6 cable, various conduit pipes etc., not unit length price.

11. Bidders will provide all the specification sheets of equipments/items quoted.

12. Bidders will be responsible for providing all fixtures/items/accessories of Standard Quality required to run the system 24X7 without any failure.

13. All installations e.g. cameras, switches, mounting, cable conduits etc. should have protection from extreme weather conditions and monkeys. All switches and accessories should be rack mounted. Racks should be of ISI standard.

14. The bidders selected on the basis of compliance of Technical specifications shall be called for demonstration of the CCTV system for Technical evaluation. The commercial bids will be considered only for vendors short-listed on the basis of Technical Evaluation by the Technical team. Incomplete and without technical brochure, bids will not be accepted.

15. The vendor will have to supply all the **original software with licensed version** to run the complete system at the time of completion of work.

16. The bidder shall submit an authorization certificate from the manufacturers (OEM) of the system for quoting, maintaining and providing spares for their systems' life time (7 years).

17. The quoted product should be manufactured by a firm whose quality system is in compliance with the relevant quality system.

18. The bidder shall provide all documents like CE, UL certification, ISO 9001/9002 certification in respect of product / manufacturer of product quoted.

19. The system must have the flexibility of upgrading the system without replacing major equipment elements. The system component should be modularly expandable. It must be possible to add more cameras, monitors and controls in the system by adding only the required number of cards / modules / components in the proposed system.

20. The successful bidder will be provided with the tentative layout plan of cameras and control to be installed.

21. Bidder must have sale set-up in India and service support base near the locations to achieve the response time as required under warranty and post warranty services.

22. The system should be of open protocol with no proprietary Hardware and Software.

Video Management System (VMS)

General Overview

The contracted firm is to provide and install an automated, intelligent video management System (VMS) software package. It must be capable of being used for real-time event analysis and notification or as part of real-time event monitoring. The intelligent video management software must be delivered together with multiple standard event (Rules) definitions and processing capabilities as part of a base software application product. The proposed solution with POE shall meet all requirements specified in this Section. The Video Management System (VMS) must be able to analyze video streams from cameras and display the alarm information on video management system.

Operational Environment

The VMS shall have the capability of operating in an environment that requires multi-tasking, when using multiple cameras spread over a wide area. The VMS shall include network-capable of remote viewing facilities that shall be programmed and monitored by any user application running on a workstation.

The installer shall also include all documentation and manuals for each application. Version updates shall be performed from any workstation, for all applications, either from the Control Center or in the field.

Configuration, Setup and Video Management

The VMS 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. The end-user shall have the capability of performing all management and monitoring functions from any computer connected to the network.

The VMS shall provide measures for securing operational access to and administrative permissions for different user levels: -

User - No programmability, generally can view and acknowledge alerts.

Supervisor - Limited programmability but has more rights to perform specified system changes.

Administrator - Full programmability and has full rights to change the system in any way and to control user access to system configuration functions.

The VMS shall provide monitoring capabilities for detecting and reporting if any camera is not providing an image and/or a good quality image because of: -

No video - triggers an alarm when the video signal is disconnected.

Scalability and Redundancy

The VMS shall be a DVR/server-client based system. The user shall be able to scale the system to support additional numbers (30% max) of cameras by adding additional servers to the network. This procedure does not require any system down time.

Network Recording System

General Overview

The contractor is to provide and install a live and recorded video management and NVR solution for real time event monitoring, recording video and audio and also real time event analysis. It must be capable of integration with Video Content Analysis* software and IP/PTZ/Bullet cameras. The Video Management solution must be able to show live and recorded video in the same window simultaneously and enable triggered pull up of customized layouts, video streams, maps and Pan Tilt Zoom presets according to Analytic events.

VMS PERFORMANCE AND OPERATIONAL REQUIREMENTS

Video Standards and Formats

VMS should have the capability of analog/digital video compression video stream including MPEG-4 or higher version. VMS shall have the capability of accepting analog (PAL) video signals and a range of digital video compression video stream including M-JPEG, MPEG-2, MPEG-4, H.263, and H.264.

VMS should be able to record 8 video channels simultaneously. VMS shall have the capability of providing video processing at **4CIF**. If required, **mega-pixel** cameras can be connected to the system to view the video without loss of pixels or frames

Detection and Tracking Capabilities

VMS shall have the capability of supporting multiple Rules definitions and responses on a per camera basis. VMS shall have the capability to enable the customer to define Rules activation upon other Rule and/or Digital Input activation. The "chain" of Rules has no limitation and each rule can activate and deactivate an unlimited number of rules. VMS shall have the capability to enable the customer to configure video intelligence analysis operational parameters such as activation time and durations, for continuous analysis. The system shall provide a GUI enabling the customer/operator to establish specific threat definition Rules, perform object sample definitions, and set operational Rules. VMS shall have the capability of Motion Detection based recording. Based on current studies and site survey, the following list of Video Analytics can be integrated into the system as and when required: -

- i. Left Luggage
- i. Face Capture
- ii. Wrong Direction
- iii. License Plate Recording
- iv. People Count

Event Response, Notification and Messaging

The VMS software shall have the capability to provide automatic and immediate notification of end user-defined threats. Alarms are displayed through the specified CCTV system.

The VMS system shall have the capability of providing real time alerts upon detection of each behavior programmed for monitoring. Alerts are displayed via a viewing stations connected to the DVR/server.

The VMS shall provide an Events History and stores a log of each detected alert. Each event log includes at least the following information:

Name of the camera
Date and time of detection
Type of alert
User Name

Logging and Reporting:

VMS shall include full Settings Data base backup for fast recovery.
VMS shall support System log of integral self-diagnostic alarm and event.
VMS shall enable reports of Log audit trail of user login, logout and archiving functions integral reporting application with advanced sorting filters.

User Management:

User database with login password and contact details. User profiles with configurable permissions and access settings.

Display:

VMS shall enable user defined customized layouts that include specific video channels, map and picture support and I/O display. VMS shall support multi monitor support.

VMS shall support endless user configurable split screen modes (presets) including matrix layouts, video channels, with pre-configured connections.

Export:

VMS shall support video export to AVI format – to be played with any Windows Media Player, with no software installation as a prerequisite.

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.

Connectivity

The VMS should support any form of IP network connectivity including LAN, WAN, VPN technologies. The VMS supports ISDN, GSM, CDMA and PSTN connectivity.

Existing and Future Cameras

The VMS shall be scalable and able to be configured to manage and control numerous additional analog or IP cameras at a future time.

Configuration, Setup and Video Management

The end-user shall have the capability of performing all management and monitoring functions from any computer connected to the network.

The VMS shall provide measures for securing operational access to and administrative permissions for endless user permissions

Profiles – Administrator assigns resource groups per profile e.g. operator, guard, and manager. Each profile is assigned with access authority to the specific group that allows control levels of operations allowed per assigned resource in that specific group:

View only- The user will only be able to view the live video of each channel in the specific group.

Playback – The user will be able to view live and recorded video of each channel, and extract data from the archived storage.

PTZ – The user will be able to view live video and control the PTZ cameras.

Users – Each user is assigned a profile.

1. PTZ 36X HIGH RESOLUTION DOME CAMERA with 360degree rotation for outdoor purpose-01 No (Preferable for IP based Camera)

The Camera system shall meet the following minimum design and performance specifications: -

Imager	1/4" color CCD or 1/3MOS
Minimum Illumination	0.1 lux for color at 30 IRE, 0.01 lux at 30 IRE for B/W
Signal format	PAL
Effective pixels	752(H) x 582(V)
Optical Zoom	30X or better
Digital Zoom	12X or better
White balance, Gain Control	Auto
Frame Rate	25 FPS @4CIF
Video Compression	MPEG4 SP and H.264 Selectable
Video Output	1.0 volt p-p, 75 ohms
Audio output	2 way
S/N ratio	>50dB
Lens with Auto Iris & Auto Focus	3.4 – 112mm or more
Pan range	360 ⁰ continuous.
Tilt range	-45 ⁰ to 90 ⁰
Backlight compensation	Auto
Operating Temperature	-5° C to 50° C
Housing of same make	IP 66 in case outdoor, with built in heat and fan

2. 30 Mtr IR Bullet Camera-01 No

3. 30Mtr IR Bullet Camera with scanner- 01 No

4. 26" Color LED Display or better-01 No

Resolution: 1080 X 1024 Minimum

Contrast Ratio: 100000:1

Lumens Level 500 Cd/ m sq or better

Rated life minimum 50,000 hours at 50% brightness or better

5. Digital Keyboard for PTZ Cameras-01 No

P/T/Z Controls Joystick

Selectivity of features LCD screen with backlight buttons for selection of various features

6. DVR/NVR Specifications- 01 No (Preferable for NVR)

The NVR/Digital Video Recorder should support recording for 16 channels or better & use latest H.264 compression technology.

It should have built-in-web server & Control Center Software.

Storage : Hard Disks, 2 SATA hard drive 2 TB each.

Record Rate: PAL max. 25 IPS per channel, configurable: 25,12.5,6.25,5,2.5,1

7. Armored UTP Cable CAT-6

4 pair UTP cable 23 AWG Solid Bare cooper, Polyolefin Insulation

Applicable Standard: ISO/IEC 11801-category -6 or better

Insulation Resistance: 50 MΩ as per requirement.

8. Camera Mountings:

The Camera system should be easy to install and be perfect for indoor/outdoor applications. It shall have a versatile design allowing with adjustable metallic fixture at lower end of the pipe. The upper end should have circular plate welded for fixing to the ceiling or as per the site requirement. The length of the pipe and distance coverage of the object will be as per the requirement of the site.

9. Equipment Rack: -

Standard Rack, oven backed and powder coated shall be provided for all the control equipment. Rack shall have provision of cable tray for routing cables and power points with on /off switch for all equipments with 20% spare capacity.

10. Redundant Cabling:- All cabling should have redundancy.

11. Test Requirements:-

Unless otherwise specified all tests shall be carried out at ambient atmospheric conditions.

Inspection and testing shall be carried out to the effect that all requirements of this specification are complied with.

12. **WARRANTY:**

The bidder shall provide three years on site comprehensive warranty from date of complete installation of system. The contractor must have adequate infrastructure and stock of spare parts (other than the spares purchased by the indenter) to offer repair and maintenance support for full lifetime of the equipment. The firm shall be liable to replace or repair the part/equipment/system within 6 hrs during warranty.

13. **TRAINING**

Onsite training shall be provided to the staff, which shall include complete assembly of the system through the use of various modules, integration of hardware with software and complete operation of the system.

Sets of training manual in two hard copies and two soft copies containing details of technical specifications, installation and commissioning, trouble shooting & maintenance schedule etc. shall be supplied along with the equipment.

14. **DOCUMENTATION**

The following documents should be supplied along with the system.

Mechanical drawings of each sub system/ rack. Complete architecture of system design with make model. Installation and maintenance manual incorporating trouble-shooting exercises, printed cards patterns, software etc. Operating & trouble shooting manual including maintenance schedule.

Pre-commissioning checklist.

ANNEXURE-A

List of Items for CCTV System to be installed at the Office Premises of SIB, Bhubaneswar, Vidyut Marg, Unit-V, Bhubaneswar-751001

SL No.	Description of Items	Quantity	Remarks
1	CAMERAS (Preferable for IP Based Camera) 1/4" CCD or 1/3 MOS 36X IP Dome PTZ Camera with lens, housing, bracket. Make:- Honeywell, Axis, Sony, Panasonic, Bosch, LG, Samsung etc	1 no.	Diagram of area & locations of cameras to be installed may be shown by the office, if required.
2.	30 Mtr IR Bullet Camera,(Preferable for IP Based Camera) Make:- Honeywell, Axis, Sony, Panasonic, Bosch, LG, Samsung etc	1 No	
3.	30 Mtr IR Bullet Camera with Scanner, Preferable for IP Based Camera) Make:- Honeywell, Axis, Sony, Panasonic, Bosch, LG, Samsung etc	1 No	
4	SOFTWARE Video Management System Software with required features.	1 no.	
5	MONITOR 26" LED Monitor or better for above Client workstation/Server. Make: SONY/Samsung/LG etc	1 no.	

6	16 Channel DVR/NVR (Preferable for NVR) any branded make like Honeywell, Axis, Sony, Panasonic, Bosch, LG, Samsung etc	1 No	
7	DIGITAL KEYBOARD (With Joystick)	1 no.	
8	CAT 6 Cable with conduit pipe wiring	700 mtrs (as per requirement)	Per meter rate may also be given
9	Power Cable with conduit pipe wiring	1000 mtrs. (as per requirement)	---do---

However, preference is to be given to the firm offering CCTV System with IP Based & latest technology.

Power Backup point may be raised before tender

ANNEXURE-IV**CHECK LIST FOR TENDER**

S.No.	Requirements to be checked before submission of the tender	Complied (Please indicate YES or NO after complying with the requirement)	Indicate Page No.
1.	Whether cost of tender is enclosed.		
2.	Whether Earnest Money Deposit (EMD) is enclosed.		
3.	If an SSI Unit, the same is indicated in the tender and copy of valid registration certificate is enclosed or not.		
4.	Whether complete tender documents are enclosed duly signed with official seal on all pages or not.		
5.	Whether signatures of witness with full name and address added whenever required on tender documents or not.		
6.	Whether tender documents are submitted in two bid system i.e. Technical and Financial Bids separately as per tender enquiry or not.		
7.	Whether offer of validity as required in the tender enquiry is accepted and indicated the same in your tender document or not.		
8.	Whether terms of Delivery and period as required in the tender enquiry is accepted and indicated the same in your tender document or not.		
9.	Whether payment terms as required in the tender enquiry is accepted and indicated the same in your tender document or not.		
10.	Whether compliance statement as required in tender enquiry is enclosed along with supporting technical documents/proof for each point/parameter or not.		
11.	Whether performance statement for last 3 years as required in tender enquiry in the format is enclosed or not. If not, reason thereof is given or not.		
12.	Whether warranty period as required in the tender enquiry is accepted or not.		
13.	(a) The status of tenderer as to whether manufacturer or manufacturer's authorized agent is indicated in your document. If authorized agent, valid authority letter for the stores offered from the manufacturer is enclosed or not. (b) If an Indian agent of foreign principal, whether your firm enlisted with DGS&D under compulsory enlistment scheme or not. Copy of valid DGS&D enlistment certificate as Indian agent of foreign principal is enclosed or not. If not, reason thereof is given in your tender document or not.		
14.	If called for in tender enquiry, whether tender sample is enclosed or not.		
15.	Whether Lab test report from NABL accredited Lab as required in tender enquiry, in original, giving clear verdict as per requirement of tender is enclosed or not.		

16.	Whether acceptance of functional demo/field trial clause, as required in tender enquiry is specified in your tender document or not.		
17.	Whether free training about use of equipment after supply, as specified in tender enquiry is accepted or not.		
18.	Whether the conditions of contract as per DGS&D 68 ® and DGS&D 229 is accepted and indicated in your document or not.		
19.	Whether indicated in the tender document, if your firm's business dealings is banned by any Govt./Private agency or recommended for black listing or not.		
20.	If your firm wants to indicate any specific condition, it must be on the covering/forwarding letter only which will be placed on the first page of the technical bid. Such condition mentioned in any other documents will not be considered.		