

CORRIGENDUM/ ADDENDUM

Other Terms & Conditions of the Tender

5. Minimum Eligibility Criteria-

Only the following 6 PSUs which are mentioned in the Ministry of Home Affairs' O.M No. D.32018/33/2015- SSO dated the 8th December, 2015 will be eligible to submit their bids for this Tender:

1. Broadcast Engineering Consultants India Ltd. (BECIL) CMD, C-56, A/17, Sector-62, NOIDA, Uttar Pradesh- 201307
2. Telecommunications Consultants India Ltd. (TCIL), 5th Floor, Greater Kailash-1 New Delhi-48
3. Electronic Corporation of India Ltd. (ECIL) B-2, Local Shopping Centre, DDA, B-2, 'A' Block, Ring Road, Naraina, New Delhi-28
4. Indian Telephones industries Ltd. (ITI), Regional Office, 201-202, Rohit House, 3, Tolstoy Marg, New Delhi-01
5. Bharat Electronics Ltd. (BEL), Corporate Office, Outer Ring Road, Nagavara, Bangalore – 560045
6. Central Electronics Ltd. 4, Industrial Area, Sahibabad, Uttar Pradesh

6. Two bid system

This is a Limited E- Tender and the bids are to be submitted on-line only under two cover system. One bid will be Technical Bid for which the information is to be submitted in the Technical Bid format. The other bid will be Financial Bid which should be submitted separately, with the tender.

First, the Technical bid will be opened and evaluated by the Tender Evaluation Committee. Based on the Technical Evaluation of the bids, the Financial bid of only those PSUs will be opened which meets to Technical eligibility criteria.

7. Last date & time for submission of the Bids-

The bids can be submitted up to **3:00 P.M on 29/01/2018**. The responsibility to ensure timely submission of bids lies with the bidder. No request for late submission of the bid will be entertained.

8. Time and date for opening of bids-

The technical bid shall be opened at **3:30 P.M on 30/01/2018** and the PSUs can send their representatives for attending the Technical bid opening. The Financial bids of only those bidders will be opened who qualify the Technical Bid Evaluation criteria and such firms will be informed about the date & time for opening of the financial bids.

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14.4 Time for performance of the relative obligation suspended by —Force Majeure shall then stand extended by the period for which such cause lasts.

15. In case of any dispute the Jurisdiction of the case shall be in Delhi Court Only.

16. Bid Security- In place of a Bid security, it is required from the Bidders to sign a Bid securing declaration (as per Annexure –M) accepting that if they withdraw or modify their Bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, they may be suspended for a period of two years from being eligible to submit Bids for contracts with this Ministry.

17. Performance Security-

17.1 The lowest Bidder will have to deposit a Performance Security of an amount of 5% of the Total Tender Value and this Performance Security shall be in the form of Bank Guarantee or FIXED DEPOSIT RECEIPT (FDR) drawn in favour of DDO, MoES and payable at New Delhi. The Performance Security should be valid beyond 60 days from the date on which all contractual obligations are over/completed.

17.2 This is an E-Tender and the Technical & Financial Bids are to be submitted On-Line only on <http://eprocure.gov.in/eprocure/app>. The Intended Firms (only 6 central PSUs in system integration areas) are to participate in E-tendering and such tenderer should have a Digital Signature for the purpose of participation in the E-Tender process. The “Instructions for online Bid Submission are given at Annexure I”. The specifications of the items/number of items/other details is given in Annexure II& III.

17.3 The bidders are required to visit Prithvi Bhavan to see the actual installations to assess the quantum of work involved before submitting the tender. Once the tender is submitted, it will be deemed that the bidder has seen and understood the complete work involved for each of the systems.

17.4 Technical Bid will be opened first and Financial Bid of only those firms will be opened by the Tender Committee which will be found eligible as per Technical Bid.

17.5 The Ministry reserves the right to reject any or all the tenders with or without assigning any reason.

17.6 Terms and Conditions for the contract/quotations and details of the documents are attached which will be required to be signed by the respective PSU.

Rishi Kumar
Director (General Admn.)

Copy to:

1. NIC, Ministry of Earth Science for posting the tender document on Ministry of Earth Science's Website.
2. All Ministries/Department for broad publicity.
3. Central Public Procurement Portal website.

Rishi Kumar
Director (General Admn.)

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CORRIGENDUM 1

Limited Tender No. MoES/06/04/2014-Genl.

Document Control Sheet

| | |
|--|--|
| Limited Tender No. | MoES/06/04/2014-Genl. |
| Name of Organization | MINISTRY OF EARTH SCIENCES |
| Last date and time for downloading Tender document | 29/01/2018 (15:00 Hrs) |
| Last Date and Time online submission of Bid | 29/01/2018 (15:00 Hrs) |
| Date and Time of Opening of Technical Bid | 30 /01/2018 (15:30 Hrs) |
| Address for Communication | Director (General Admn.) Ministry of Earth Sciences Prithvi Bhawan, Lodhi Road, New Delhi -110003 Tel. 01124669509 |

In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Ministry reserves the right to accept or reject any or all the tenders without assigning any reason thereof.

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18. Terms & Conditions

- I. PSU will ensure that the items will be provided and installed successfully within the stipulated period of time of 3 months (90 Days) of award of work order.
- II. PSU will bear the responsibility to bring the items and installing the same in the office.
- III. Ministry of Earth Science reserves the right to reject any quotation completely or partially without assigning any reason.
- IV. Ministry of Earth Science also reserves the right to cancel the contract before installation, if the items of the PSU are not found satisfactory.

19. Documents to be enclosed with Technical Bid

- I. Manufacture Authorization Letter (as per Annexure- K) required to be submitted confirming that bidder is authorized to quote the products of OEM & Product should comply with the requirement of this Ministry as per specifications given to the PSU.
- II. Brochure of each item in respect of which rates are quoted should also be attached.
- III. Compliance sheet should also be attached from bidder's end giving undertaking that the items to be provided by them comply with the specifications provided.
- IV. Bidder should clearly mention if there is any deviation from the specifications or else no deviation certificate may be enclosed.

Signature of the Authorized Person/Officer of PSU

Name & Address of the PSU

Phone Number:

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ANNEXURE II

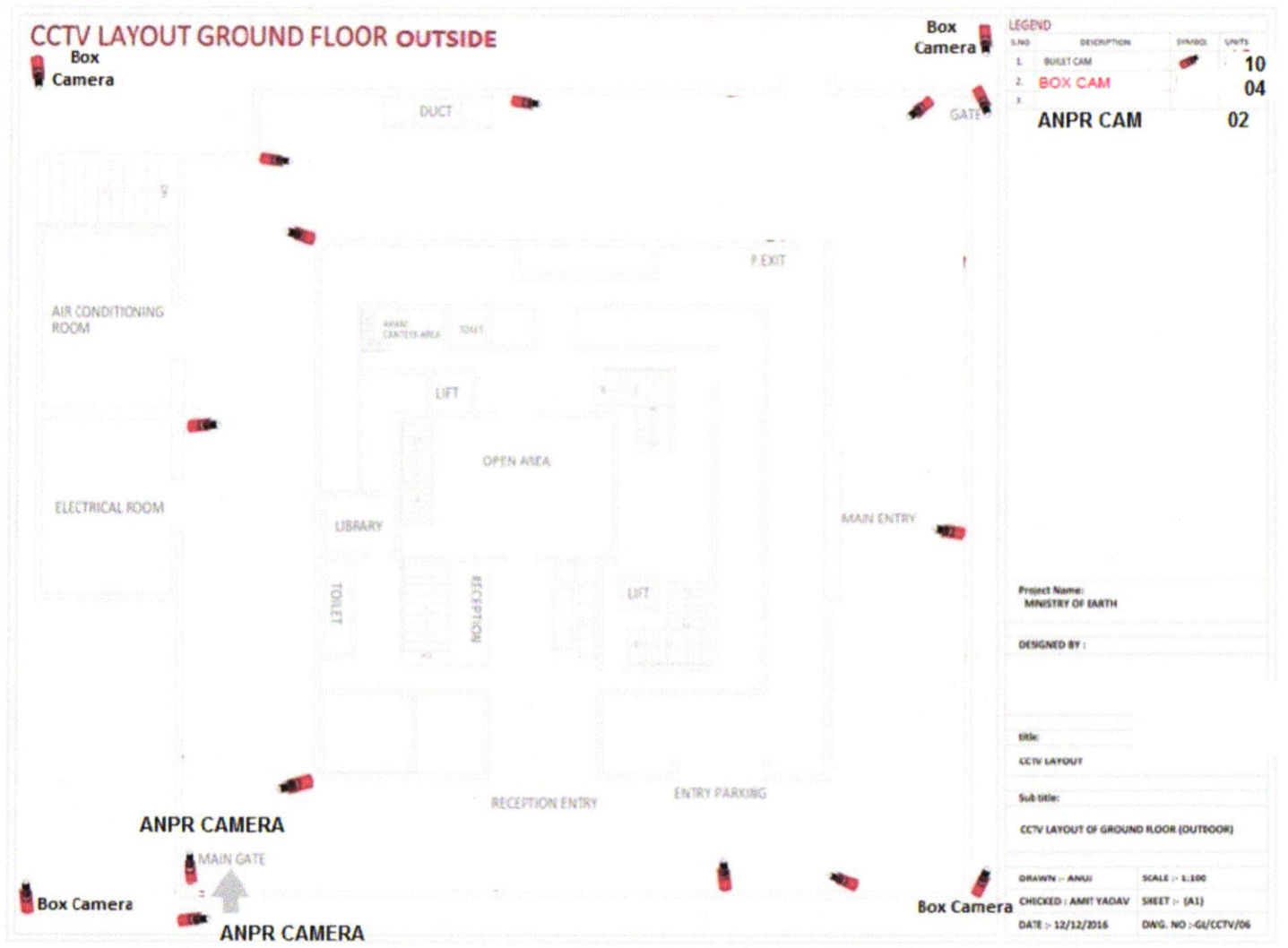
Details of CCTV to be installed

| S. No. | Location | HD IP Bullet | HD IP Dome | HD IP Box Cameras | ANPR Camera | Remarks |
|--------|---|--------------|------------|-------------------|-------------|--|
| 1. | Main Gate Entry | | | | 2 | ANPR Camera with software. |
| 2. | Entry Boundary Wall | 2 | | | | |
| 3. | Electric Sub Station Room | 1 | | | | |
| 4. | AC Plant | 1 | | | | |
| 5. | Main Gate Corner (Box Camera) | | | 1 | | Automated Varifocal Box Camera 5-50mm Lens |
| 6. | IMD Corner (Fire Box View) | 1 | | | | |
| 7. | IMD Corner Boundary Wall | 1 | | | | |
| 8. | IMD Corner Boundary Wall (Box Camera) | | | 1 | | Automated Varifocal Box Camera 5-50mm Lens |
| 9. | IMD Back Gate Entry | 1 | | | | |
| 10. | IMD Office Exit Gate | 1 | | | | |
| 11. | Lodhi Road Corner (Box Camera) | | | 1 | | Automated Varifocal Box Camera 5-50mm Lens |
| 12. | Lodhi Road Office / Goods Entry | 1 | | | | |
| 13. | Habitat Centre Road Boundary Wall Corner (Box Camera) | 1 | | 1 | | Automated Varifocal Box Camera 5-50mm Lens |
| 14. | Parking Entry | 1 | | | | |
| 15. | Basement Parking Stairs (Near Car Exit) | 2 | | | | |
| 16. | Near Car Exit Lan | 1 | 1 | | | |
| 17. | Parking Lan 1 | 1 | 1 | | | |
| 18. | Basement Staircase Gate 2 | | 1 | | | |
| 19. | Basement Staircase (Near Fire Station) | | 1 | | | |
| 20. | Fire Station Entry | 1 | | | | |
| 21. | Parking Lan 2 | 2 | | | | |
| 22. | Staircase (Near Wash Room) | | 1 | | | |

| | | | | | | |
|---------------------------|---|-----------|-----------|----------|----------------|--|
| 23. | Parking Lan 3 | 2 | | | | |
| 24. | Basement Lift | | 1 | | | |
| 25. | Basement Parking Staircase 2 | | 1 | | | |
| 26. | IMD Corner Office Gate Entry (Inside) | 2 | | | | |
| 27. | Avani Dining Hall | | 1 | | | |
| 28. | Room No. 15 Gallery | 2 | | | | |
| 29. | Room No. 6 opposite Gallery | 2 | | | | |
| 30. | Reception Area | 1 | 1 | | | |
| 31. | Room 01 / Library | 1 | | | | |
| 32. | Ground Lift Main Entry | | 1 | | | |
| 33. | Mahika Entry | 1 | 1 | | | |
| 34. | Arnav Dinning Area | 1 | 1 | | | |
| 35. | Mahika Entry Auditorium | 2 | 1 | | | |
| 36. | Room No. 101 to 104 Gallery | 1 | | | | |
| 37. | Room No. 118 Gallery | 1 | | | | |
| 38. | All Second Floor as per the diagram | 5 | 1 | | | |
| 39. | Room No. 208 Gallery | 1 | 1 | | | |
| 40. | Room No. 309 Gallery | 2 | 1 | | | |
| 41. | Room No. 301 Gallery | 2 | 1 | | | |
| 42. | Room No. 304 Gallery | 2 | | | | |
| 43. | Outside of all Lifts | | 6 | | | |
| 44. | Fourth Floor | 5 | 4 | | | |
| 45. | Fifth Floor | 2 | 2 | | | |
| Total No. Cameras: | | 53 | 29 | 4 | 2 | |
| TOTAL CAMERAS | | | | | 88 Nos. | |

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TOTAL CAMERA 16

FORM FOR FINANCIAL BID

ANNEXURE III

| | |
|--|--|
| Tender Inviting Authority : Ministry of Earth Sciences | |
| Name of Work: Installation of CCTV Surveillance System in Ministry of Earth Sciences at Prithvi Bhawan | |
| Contract No: MoES/6/4/2014-Genl. | |
| Bidder Name | |

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bid is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

| S. No. | Model : Description | Unit | Qty. | Unit Price | Total Amount |
|--------|---|-------|------|------------|--------------|
| 1. | IP Based HD CCTV Bullet Camera (Specifications as per MHA Guidelines) Annexure-A (Preferred Make/Models: Pelco, Axis, Samsung, Bosch or Equivalent) | Nos. | 53 | | |
| 2. | IP Based HD CCTV Fixed Dome Camera (Specifications as per MHA Guidelines) Annexure -B (Preferred Make/Models: Pelco, Axis, Samsung, Bosch or Equivalent) | Nos. | 29 | | |
| 3. | IP Based HD CCTV Camera- Fixed outdoor Box Camera (Specifications as per MHA Guidelines) Annexure -A (Preferred Make/Models: Pelco, Axis, Samsung, Bosch or Equivalent) | Nos. | 4 | | |
| 4. | IP Based ANPR Camera with software (Preferred Make/Models: Vantage, Vintron, Bosch or Equivalent) (Specifications as per Annexure -G) | Nos. | 2 | | |
| 5. | 5 to 50 mm varifocal lens C/CS Mountable for Fixed Camera | Nos. | 4 | | |
| 6. | Installation Charges for Indoor Cameras | Nos. | 72 | | |
| 7. | Installation charges for outdoor cameras | Nos. | 16 | | |
| 8. | Network Video Management Software (NVMS) (Preferred Make/Models: Genetec, Myrais, Kritikal or Equivalent) (Specifications as per Annexure -H) | Nos. | 2 | | |
| 9. | Layer-2 Modular PoE Ethernet Switch with 24 ports, 10/100/1000 Gbit and 4 SFP ports (Multi Mode) (Preferred Make/Models: Cisco/Dlink or Equivalent) For detail specifications see Annexure- E | Nos. | 12 | | |
| 10. | Layer-2 Modular PoE Ethernet Switch with 24 ports, 10/100/1000 Gbit and 4 SFP ports (Single Mode) (Preferred Make/Models: Cisco/Dlink or Equivalent) For detail specifications see Annexure- E | Nos. | 4 | | |
| 11. | Single Mode SFP module | Nos. | 8 | | |
| 12. | Multi Mode SFT module | | 24 | | |
| 13. | Installation Charges for Layer-2 Modular PoE Ethernet Switch with 24 ports | Nos. | 16 | | |
| 14. | 6 core multi mode Fibre Optic Cable (as per actual) | Meter | 500 | | |
| 15. | Layer-3 Gigabit Ethernet Cisco Switch (PoE) For detail specifications see Annexure- D | Nos. | 1 | | |
| 16. | 6 core single mode Fibre optic Cable | Meter | 1000 | | |

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|-----|--|-------|------|--|--|
| 17. | Laying and fixing of Fibre optic cables(as per actuals) | Meter | 1500 | | |
| 18. | Wall mounted Network Rack – 9U/6U | Nos. | 16 | | |
| 19. | Installation and Fixing of 9U/6U Racks | Nos. | 16 | | |
| 20. | Server Network Rack (Tower) 19 U with power and Fans | Nos. | 1 | | |
| 21. | CAT-6 UTP Cable (Preferred Make/Models: Dlink, Tyco, Digilink or Equivalent) | Meter | 6000 | | |
| 22. | Laying and fixing of CAT-6 UTP Cable | Meter | 6000 | | |
| 23. | Laying Conduits/Channels | Meter | 2000 | | |
| 24. | Pole and installation for CCTV Camera- Fixed outdoor Box Camera | Nos. | 4 | | |
| 25. | Digging/Rigging and refilling with Soft/Hard | Mtr. | 150 | | |
| 26. | I/O Box with Modules | Nos. | 88 | | |
| 27. | Installation and fixing of I/O Box and modules | Nos. | 88 | | |
| 28. | 24 Ports Jack Panels | Nos. | 16 | | |
| 29. | UTP Cable Manager | Nos. | 16 | | |
| 30. | UTP CAT-6 Patch Card 7Ft. | Nos. | 88 | | |
| 31. | UTP CAT-6 Patch Card 3Ft. | Nos. | 88 | | |
| 32. | Ferules (1 to 10 & A to Z) | Nos. | 10 | | |
| 33. | Rack Mounted Servers: Intel based 2*8 Core latest Zeon Processor, 32GB DDR4 RAM, 2TB SATA HDD, 4 Gigbit LAN Ports with 400Mb/sec aggregate , DVD, USB Ports(Preferred Make/Models: HP, DELL, IBM, Lenovo or Equivalent (Other Specifications as per Annexure –J) | Nos. | 2 | | |
| 34. | Rack Mountable 17 inch LED Display (Monitor) | Nos. | 1 | | |
| 35. | 8 Port KVM Switch | Nos. | 1 | | |
| 36. | Microsoft Windows Server 2012 R2 with License | Nos. | 2 | | |
| 37. | Network Storage Servers: SAN system with 20 TB 7.5K RPM SATA 3.5 HS HDD, Controller node should support 1TB, 4TB & 6TB 3.5 Hot swap disk drives, and RAID 5 support, System scalability/expansion, System Redundancies, Data Access Protocol support NFSv3, CIFS/SMBStorage system should distribute/load balance video files across all nodes in the system, storage system should be scalable from single node to 256 nodes.(Other Specifications as per Annexure –L) (Preferred Make/Models: Hitachi, Net app, Dell, HP or Equivalent) | Nos. | 1 | | |
| 38. | Network Storage Servers: SAN system with 20 TB 10K RPM SATA 3.5 HS HDD, Controller node should support 1TB, 4TB & 6TB 3.5 Hot | Nos. | 1 | | |

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|-----|--|------|---|--|--|
| | swap disk drives, and RAID 5 support, System scalability/expansion, System Redundancies, Data Access Protocol support NFSv3, CIFS/SMBStorage system should distribute/load balance video files across all nodes in the system, storage system should be scalable from single node to 256 nodes. (Other Specifications as per Annexure –L) (Preferred Make/Models: Hitachi, Netapp, Dell, HP or Equivalent) | | | | |
| 39. | Desktop/Workstation: Intel I7 7 th Generation or above processor, 1TB SATA HDD 500 RPM, 8GB DDR4 RAM with 4 GB Dedicated RAM with HD Graphics card, DVI,HDMI,VGA Ports,2*Giga Bit LAN Ports, Keyboard, Mouse, 3XUSB. 3.0, 17” Full HD LED Monitor with Windows 10 Professional/Premium Version. (Preferred Make/Models: HP, DELL, Lenovo or Equivalent) | Nos. | 4 | | |
| 40. | Installation and Configuration Charges for Storage Servers | Nos. | 2 | | |
| 41. | LED TV 40” or above: 40” or above Professional LED Smart TV with Full HD, HDMI, LAN, USB WiFi Ports.(Preferred Make/Models: LG, Samsung, Panasonic, Sony or Equivalent) For detail specifications please see Annexure –F | Nos. | 5 | | |
| 42. | 5 KVA online UPS with Min. 30 Minutes Backup (Preferred Make/Models:Emerson, Tritonics, Hitachi or Equivalent) | Nos. | 1 | | |
| 43. | Lump sum Installation Charges for Software | | | | |
| 44. | TOTAL (INC. TAXES) | | | | |
| | QUOTED RATE IN WORDS IN ONLY | | | | |
| | | | | | |

Note: If any of the above items is required to be reduced in number or to be increased in number, the amount on pro-rata basis will be decreased or increased

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Minimum Specification of 40 inch Full HD or Higher LED Monitor

| Sl. No. | Functionality/ Description | Minimum Specifications |
|---------|-------------------------------|--|
| 1 | Type of Monitor | 40" LED Professional Colour Monitor (Flat panel design) |
| 2 | Panel | LED/OLED |
| 3 | Aspect ratio | 16:9 |
| 4 | Response time | 9ms or better |
| 5 | View Angle | 178° or better |
| 6 | Contrast ratio | 5000: 1 or better |
| 7 | Display Colors | 16 million (1080) |
| 8 | Indicators/ Controls | User friendly on-screen menus & front panel controls, indicators |
| 9 | Speakers | Integrated |
| 10 | Input Voltage | 230 V+/- 10% AC, 50 Hz |
| 11 | Input Signal & Connections | DVI,HDMI, Composite/Component, USB |
| 12 | Mount | Suitable mounting arrangement for installing the monitor on wall/ ceiling/ Floor to be provided |
| 13 | Operating temperature | 0° to 40°C or better |
| 14 | Operating Humidity | 20% to 80%, non-condensing |
| 15 | Accessories | All required cables and connectors, Documentation: Installation guide, Operation & Maintenance Manuals, Installation CDs for driver software |
| 16 | Make | SAMSUNG, PANASONIC, LG or EQUIVALENT |

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ANPR Camera Minimum Specifications

| | |
|----------------------------|--|
| Image Sensor | 1/3" CCD, monochrome |
| Lens | 5 to 50 mm varifocal, calibrated to optimal capture distance |
| Active Pixels | PAL: 752 x 582 NTSC: 768 x 494 |
| WDR | 120 dB |
| IR Range | 50 m |
| Flexible angle adjustment | 30° (Optional: 45°, 60°, 90°) |
| Optimal Distance | 33.5' (10.2 m) |
| IR Illumination | Pulsed LED array, 850 nm |
| Maximum Capture Speed | 140 mph (225 kmph) |
| Mode Switch | Automatic; adjustable switch point depending on ambient light levels, mode selectable |
| Video | |
| Video Compression | H.264 (ISO / IEC 14496-10), M-JPEG, and JPEG |
| Data Rate | 9.6 kb/s to 6 Mb/s |
| Resolution (HxV pixels) | 2 MP @ Full HD 1920 *1080 @ 25/30 fps |
| Frame Rate | Per stream: 1 to 25/30 (PAL/NTSC) H.264 and M-JPEG |
| Ambient Modes | 6 programmable presets |
| Dynamic Range | 120 dB (20-bit image processing) |
| Automatic Gain Control | On / Off (0 to 30 dB) selectable |
| Auto Black | Automatic continuous, Off |
| Noise Reduction | Dynamic: Auto, On / Off selectable |
| Sharpness | Enhancement level selectable |
| Controls | OSD operation (multilingual) |
| Video Motion Detection | 1 fully programmable area |
| Network and Storage | |
| Protocols | RTP, Telnet, UDP, TCP, IP, HTTP, HTTPS, FTP, DHCP, IGMP V2/V3, ICMP, ARP, SMTP, SNMP, 802.1x, UPnP |
| Encryption | TLS 1.0, SSL, AES (optional) |
| Ethernet | STP, 10/100 Base-T, auto-sensing, half/full duplex, RJ45 |
| PoE Power Supply Type | IEEE 802.3at compliant |
| User Connection | |
| Power | 2-wire flying leads and RJ-45 100 Base-TX Ethernet PoE+ IEEE 802.3at, class 4 |
| Video and Control | RJ-45 100 Base-TX Ethernet, BNC (setup only) |
| Environmental | |
| Rating | IP67 weatherproof, Type 4X (NEMA 4X) |
| Humidity | Operating/Storage: 0 to 100% relative, condensing |
| Wind Velocity Resistance | 90 mph (144 kmph) |
| Operating Temperature | -10°C ~ 50°C |

NVMS Specifications

TECHNICAL SPECIFICATIONS OF VARIOUS COMPONENTS OF THE CCTV SYSTEM RECOMMENDED FOR GOVERNMENT BUILDING UNDER MHA SECURITY COVER FOR AREAS INSIDE THE BUILDING
 9676/2017/GENERAL ADMIN



(d) Network Video Management Software (NVMS)

The Network Video Management software to be used for the system should be able to meet the following minimum functional requirements:

| Sl No. | Minimum Functional Specification |
|--------|---------------------------------------|
| 1 | VMS Management |
| 2 | Failover Support |
| 3 | Multicasting and Multi-streaming |
| 4 | SNMPv3 Support |
| 5 | NAT Firewall Support |
| 6 | Watchdog |
| 7 | Logs |
| 8 | VMS Client Viewer (Operator) features |
| 9 | Video Cart Facility |
| 10 | VMS Storage |
| 11 | Video Content Analytics (VCA) |
| 12 | Hardware & Software |
| 13 | Video Standards and Formats |
| 14 | Behaviour Detection |
| 15 | PTZ Tracking |
| 16 | Tampering Detection |
| 17 | Event Generation and Receipt |
| 17 | Rules Capabilities |
| 19 | Counting Capabilities |
| 20 | Management |
| 21 | Viewing Search Results Capabilities |
| 22 | Investigation and Forensic Analysis |

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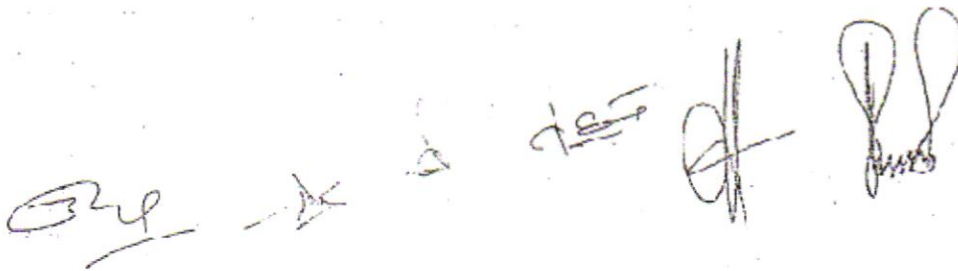
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Other Specifications of Rack Mounted Storage

2. Control Room IT Infrastructure

2 (a) Server :- Network Video Management Server

| Network Video Management Server | Specification |
|---------------------------------|--|
| CPU | Intel® Xeon® 8 CORE Processor E5-259C |
| 2 No. of Processor | 2 (TWO) |
| Memory Size | 128GB (min 8GBx16 or 16GBx8 or 32GBx4 combination), 1333 MHz or higher, upgradable to 768 GB or higher |
| Storage Details | Hot pluggable SAS HDD 5K600 GB, 10K RPM or higher with min 06 no or higher internal Drive bays. |
| RAID Controller | SAS Raid Controller with RAID 0,1,10,5 with 512MB or higher battery backed cache. |
| Optical drive | DVD combo drive |
| Chassis type | 19" Rack mountable Server of maximum 2U size with Sliding rails and fittings to install into a Rack. |
| Power Supply & FAN Redundant | Hot swappable Power supply & Fan |
| Network interface | Min 4 no Gigabit Ethernet ports or more |
| I/O Slots | Min 6 PCI/PCIE/PCX slots or higher |
| Compatible OS | Microsoft Windows Server, LINUX |
| Management | OFM Server Management Software |
| IPV6 Compliance | The Hardware should be IPV 6 Compliant ready. |
| Monitor & KBD/Mouse | 18.5" Screen & USB Keyboard & Mouse |



With

MANUFACTURER AUTHORISATION LETTER

FOR
CCTV Cameras/Network Switches/Servers/Desktop/Storage Servers/LED TVs/UPS/

To,

**The Director,
Ministry of Earth Sciences
Prithvi Bhawan, Lodhi Road
New Delhi - 110003**

Subject: Manufacturer authorization towards tender enquiry No.....

Dear Sir,

We, M/s _____ having registered office _____ by virtue of being **Manufacturer of CCTV Cameras/Network Switches/Servers/Desktop/Storage Servers/LED TVs/UPS** hereby authorize M/s (**Bidder Name**), having their office at... (**Bidder office address**)... is an authorized reseller of (**OEM**) **CCTV Cameras/Network Switches/Servers/Desktop/Storage Servers/LED TVs/UPS** in India and is entitled to submit quote, negotiate, supply, install and provide after sales support for a period of 5 years for our range of products quoted by them to meet the above mentioned tender requirements.

M/s _____ within the scope of requirement as per the tender mentioned above through its authorized partner M/sshall provide supply, installation support & product warranty services in the Ministry of Earth Sciences as per tender clause.

The undersigned is authorized to issue such authorization on behalf of M/s _____.

You're sincerely,

For M/s _____

Signature

Company seal

Name: _____

Designation: _____

Date: _____

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Other Specifications of Network Storage Server

2019/20 TECHNICAL SPECIFICATIONS OF VARIOUS COMPONENTS OF THE CCTV SURVEILLANCE SYSTEM RECOMMENDED FOR GOVERNMENT BUILDING UNDER MHA SECURITY COVER FOR AREAS INSIDE THE BUILDING

(c) Storage: - Video Management Storage

| | |
|------------------------------|---|
| Storage | Specification (Video Management Storage Min 30 Days Backup with 24*7) |
| System Architecture | Storage system should be based on a symmetric and fully distributed grid / scale-out architecture with linear scalability of performance and capacity |
| | Storage system should support nodes with multiple CPU architectures (x86, RISC) in the same grid & namespace to ensure future scalability |
| | Storage system should support node controllers of different generations to participate in the same grid and namespace |
| Hard Disk Type | Controller nodes should support 1TB, 4TB & 6TB, 7200RPM 3.5 SATA Hot swap disk drives, Raid 5 |
| Disk drives | Each node should contain a maximum 12 disk drives, to minimize hot-spots |
| Storage Nodes | Storage system should scale from single node to 256 nodes |
| | System should support capacity / performance enhancement with additional nodes without downtime to production |
| | Storage system should distribute / load-balance video files across all nodes in the system |
| | In the event of addition / removal of nodes, the system should automatically rebalance existing across remaining / all nodes |
| Controller Memory | Each storage node should support minimum 16GB, and should be scalable to at least 32GB |
| Network Connectivity | Each storage node should support min. 4Gbps aggregate Gigabit Ethernet ports and 400MB/sec aggregated network bandwidth for video streams |
| System Scalability/Expansion | Capacity: The storage system should support scaling to 4TB under a single global namespace |
| | Performance: The system should support automatic scaling of performance with every addition of capacity to the namespace |
| System Redundancies | Individual nodes should support configuration for single or two disk failures, as required |
| System management | Storage node should support network port bonding and sustain port / link failures without connection loss |
| | System should support management of all nodes / controllers through a single window / dashboard |
| Data Access Protocol | NFSv3, CIFS/SMB |
| Access Control | Folder and File level access control security for users and groups which enables only authorised user to access the video files |
| System Alerts | Integrated error logging and automatic email forwarding of error alerts and error display on web management console |
| Archiving support | Support for optional tape archiving module with drag and drop feature |
| Licensing | All above features (except optional tape archiving module) should be enabled and available on the storage system by default |
| Power Supply | Redundant power supply (230VAC, 50Hz) |

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(Handwritten initials)

BID SECURING DECLARATION FORMAT

To,

The Director,
Ministry of Earth Sciences
Prithvi Bhawan, Lodhi Road
New Delhi - 110003

Subject: Bid Securing Declaration Format towards tender enquiry No.....

Dear Sir,

On behalf of, a PSU, we hereby submit a bid securing declaration accepting that if we withdraw or modify our Bids during the period of validity, or if we are awarded the contract and we fail to sign the contract, or to submit a performance security before the deadline defined in the bid document, we can be suspended for a period of two years from being eligible to submit Bids for contracts with this Ministry.

You're sincerely,

For M/s _____

Signature

Company seal

Name: _____

Designation: _____

Date: _____

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