



JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002
जवाहर विद्या मंदिर, श्यामली, राँची - 834002

No. JVM/OT-15/2018-19

Date: 06.02.2019

INVITATION TO TENDER

Subject: Tender for Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi

Salient Features of the Invitation to Tender

1	Tender Enquiry No. & Date	JVM/OT-15/2018-19, Dated 06.02.2019
2	Project Description	Tender for Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi
3	Pre Bid Meeting	15.02.2019 at 1.00 PM
4	Last date & time of submission of tender document	21.02.2019 by 01.00 PM
5	Date & Time of Opening of Tender	On 21.02.2019 at 2.30 PM. The representatives from the tenderer may be present while opening of the tender.
6	Validity of tender	03 (Three) months from the due date of opening of Techno-Commercial part of the tender document.
7	Completion Time	Two months from the date of issue of work order.
8	Earnest Money Deposit	Rs. 80000/- (Eighty thousand) only
9	Cost of the tender document	Rs. 1000/- (One thousand) only

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Dated: 06.02.2019

INVITATION TO TENDER

Subject: Tender for Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi

Sealed tenders are invited for award of Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi as per the Technical Specification attached as Annexure – I from registered, reputed, experienced and eligible firms who have executed similar nature of work in Schools/ Institutions/Organizations and satisfying all the terms and conditions in this tender document.

1.0 Instructions to Tenderers

- 1.1 Tenderer's are advised to visit the site before quoting for the tender.
- 1.2 The detailed technical specification and Bill of Quantity (BOQ) is given in Annexure – I. Any other items not specifically mentioned in the specification but which are required for complete erection, testing and commissioning, safe and efficient operation and performance of the CCTV System are deemed to be included in the scope of the Tenderer unless specifically excluded without any extra cost.
- 1.3 Tenders are invited in two bid system (i) Techno-commercial Bid & (ii) Price Bid. The 'Techno-commercial Bid' will be made and put in the first envelope containing the title '**Techno-commercial Bid**'. It should contain full information as required in Annexure – II & III and documents mentioned in **eligibility criteria 2.0**. The 'Price Bid' will be made and put in the second envelope containing the title '**Price Bid**'. It could include full information as required in Annexure – IV. Both bids should be put in the third envelope which should be prominently super-scribed as "**Tender for Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi.**" and addressed to "The Principal, Jawahar Vidya Mandir, Shyamali colony, Ranchi – 834002" on or before **21.02.2019** till **1.00 PM**. The tenders will be opened on the same date at **2.30 PM** on **21.02.2019**.
- 1.4 Tenders received after due date and time mentioned above, as well as those received without separate sealed envelopes as specified above will not be accepted.
- 1.5 It may be noted that incomplete in any respect or conditional tender will not be accepted.

2.0 Eligibility Criteria

- 2.1 The Bidder shall submit LOI/Order Copy of
 - a) Three similar completed works costing not less than the amount equal to Rs 12, 00,000/- or
 - b) Two similar completed works costing not less than the amount equal to Rs 15, 00,000/- or
 - c) One similar completed work costing not less than the amount equal to Rs 24, 00,000/- of the estimated cost.

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- 2.2 The Video Surveillance server, IP cameras must be from same OEM.
- 2.3 Bidder must submit specific Authorization letter from OEMs of all products eg: IP camera / Server / PoE switches.
- 2.4 The entire setup will be maintained by bidder for a period of 3 years from the date of acceptance (The bidder is required to maintain sufficient spares and manpower at site to ensure 99% uptime).
- 2.5 Bidder must be registered in PF and ESIC, submit the certificate for last 03 Years.
- 2.6 The Bidder should have the GST and PAN (*Copies of GST Regn. and PAN*).
- 2.7 The Firm should have at least one of its own office and service centre functioning in Ranchi City for not less than three years as on the date of commencement of issue of RFP.
- 2.8 The Bidder should provide at least 1 AMC (Annual Maintenance Contract) single work order of a single system for not less than 100 IP cameras for last 2 years from Central/State Government departments, PSU'S, Educational, autonomous bodies during last three years.
- 3.0 **Earnest Money Deposit:** The tender must be accompanied by earnest money deposit (EMD) in the form of a Demand draft drawn on any Nationalized/ Schedule Bank in favour of Jawahar Vidya Mandir. The earnest money shall be kept deposited up to a period of 06 (six) months beyond the validity of the Tender. The earnest money will not earn any interest. Tenders not accompanied by earnest money shall be rejected. On acceptance of the tender (but not earlier than the expiry date of validity of tender) the earnest money will be returned to the unsuccessful tenderers on request.
- 4.0 **Cost of the Tender :** The cost of the tender will be Rs.1000/- (One thousand only) non-refundable in the form of a Demand draft/ AT PAR CHEQUE drawn on any Nationalized/ Schedule Bank in favour of Jawahar Vidya Mandir.

IF A FIRM FILING TENDER DOES NOT FULFILLS ALL OR ANY OF THE ABOVE ELIGIBILITY CRITERIA MENTIONED ABOVE, THE TENDER OF THE FIRM WILL NOT BE CONSIDERED.

- 5.0 **Scope of work:** The scope work shall include but not limited to supply and installation of the equipment/ Software as per Technical Specification enclosed at Annexure-I, on FOR, JVM, Ranchi.
- 5.1 The scope of work shall include supply ,installation, testing and commissioning of the CCTV's/ Servers/ TV/ Desktop PC/ Associated cabling in class rooms, corridors ,playgrounds ,parking's of the school campus complete in all respect to be operative and for Jawahar Vidya Mandir, Ranchi . The POE switches shall be installed at suitable locations to be finalised during Detailed Engg. Stage and Servers along with Desktop Station at IT Centre.
- 5.2 The Entire Control of the CCTV shall be provided from two locations.
 - a) At Principal's Room
 - b) IT Center

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5.3 Further dedicated Control of the concerned Block (Pre Primary Block, Primary Block, Secondary Block and Senior Secondary Block) shall be provided from the below listed rooms

- a) Mr Soma Ghosh
- b) Mr. AK Sharma.
- c) Mr SK Gupta
- d) Mr BN Jha

Any other material required for the system to make it operational is also under the scope of the Tenderer.

5.4 230 V + 10 %, 50 Hz + 5% shall be made available for UPS input at ground floor in each Pre Primary ,Primary Block, Secondary block and Senior Secondary Block from Employer's board. Further power distribution from this Employer's to network switches etc system including complete cabling work, Distribution boards and required electrical accessories with suitable protection devices shall be in scope of Tenderer.

5.5 Training to the 5 nominated staffs of Jawahar Vidya Mandir shall be provided for minimum of 3 days.

6.0 SUBMITTALS:

6.1 Drawings: The system Tenderer shall submit all drawings, datasheets, catalogues, and bill of materials for approval/ reference.

6.2 Drawings shall be submitted in standard sizes as indicated in CCTV layout drawing (A4 size).

- a) Installation drawing for each item (A4 size)
- b) Bill of Materials (A4 size).
- c) Cable connectivity drawings and cable schedule. (A4 Size)
- d) Power distribution scheme (A4 size)
- e) Specifications and data sheet for each item (A4 size).
- f) List of software and software licenses, (A4 size).
- g) Test certificates, Internal test reports etc.

7.0 SYSTEM DOCUMENTATION

- a) System configuration diagrams in simplified block format.
- b) Manufacturer's instructions and drawings for installation, maintenance, and operation of all purchased items.
- c) Overall system operation and maintenance instructions—including preventive maintenance and troubleshooting instructions.
- d) A list of all functions available and a sample of function block programming that shall be part of delivered system. .
- e) Test certificates and internal test reports for each item •

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f) Quality Assurance Plan Operation and maintenance manuals.

- 8.0 Price:** The Tenderer shall quote for the items indicated above on FOR JVM, Shyamali, Ranchi basis. The quoted price shall be firm and binding and shall not be subject to any variation whatsoever on any account till completion of supply. All applicable taxes & duties shall be indicated separately. *(Un-priced copy of Price Bid indicating "quoted" against each item should be submitted along with Techno-commercial bid).*
- 9.0 Taxes & Duties:** Except as otherwise specifically provided in the order, the CONTRACTOR shall bear and pay all taxes, duties, levies as charges for the subject work.
- 10.0 Validity of Rates:** The rate quoted by the tenderer shall remain valid for a period of 90 (ninety) days from the date of opening of quotation.
- 11.0 Time Schedule:**
- 11.1** The successful tenderer shall be required to complete the supply & installation of above item within two months from the date of receipt of order.
- 11.2** In the event the supplied material is not conforming to the ordering specification and approved make/brand, the material so supplied will be rejected without paying any price/compensation. The decision of JVM in this regard will be final.
- 12.0 Payment Terms:**
- 12.1** No advance payment shall be made. The bank guarantee for 10% of total contract price towards performance guarantee to be kept valid till completion of three years warranty period and is to be submitted within one week from award of work order .
- 12.2** Subject to the deduction which JVM Shyamali may be authorized to make under the contract, The payment shall be released within 15 (fifteen) days of on submission of bill along with receipted challan, Inspection & Acceptance Certificate to be issued by JVM as per following schedule
- a) 30% payment of total order value shall be released within 15 (Fifteen) days of supply of materials on submission of Bill alongwith PO Copy , receipted challan & acceptance certificate to be issued by JVM, Shyamali
 - b) 60% payment of total order value shall be released within 15 (Fifteen) days of complete erection, testing and commissioning of the complete system.
 - c) 10% payment of total order value shall be released within 45 (forty five) days of complete erection, testing and commissioning of the complete system.
- 13.0 Warranty:**
- 13.1** The Tenderer shall provide comprehensive onsite warranty for all goods/equipment supplied for period of 3 (three) years from the date of final acceptance of the system. The maintenance services, including spares shall be free of cost during the warranty/guarantee period
- 13.2** All the works including power distribution boards, cameras, Servers, POE switches, Hard disks, cables. and overall workmanship of the CCTV systems must be warranted against any

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- manufacturing/design/installation defects for a minimum period of 3 years from the date of hand over of the system to the officials of Jawahar Vidya Mandir
- 13.3 The warranty shall cover faulty design, improper material, manufacturing defects and unsatisfactory performance of system. In case the equipment fails to function inspite of necessary repairing work during the warranty period, the defective equipment shall be replaced with a new one free of cost.
- 14.0 **Inspection:** The inspection of materials shall be carried out by JVM after receipt of materials at destination.
- 15.0 **LIQUIDATED DAMAGES:** Time and date stipulated in the Contract for completion of delivery and installation of CCTV System shall be deemed to be the important activity of the Contract. If, however, the Tenderer fails to fulfill the delivery and installation within the time schedule, or within such extended time schedule as may be further granted, the Tenderer shall be liable to pay as Liquidated Damages (LD) and by way of penalty a sum of 0.5% of the contract price per week of delay or part thereof, and such liquidated damages shall be limited to a maximum ceiling of 5% of the Contract Price. In case the reasons for delay in supply & installation of CCTV System are not attributable to the Tenderer, then the LD clause shall not be applicable for such delay.
- 16.0 **Acceptance of Order:** JVM is not bound to accept lowest or any Tender or to assign reasons whatsoever for non-acceptance. JVM also reserves the right to cancel the tender without assigning any reason whatsoever.
- 17.0 **Evaluation of Tender:** Tenderer should quote for all the items as per enclosed price bid format (Annexure-IV). Part offer or incomplete offer shall be liable to be rejected. Price of the techno-commercially eligible tenderer shall be evaluated on overall basis.
- 18.0 **NO CLAIM OR COMPENSATION FOR SUBMISSION OF TENDER:** The Tenderer whose Tender is not accepted shall not be entitled to claim any costs, charges, expenses of and incidental to or incurred by him through or in connection with his submission of Tender, even though JVM may elect to withdraw the Invitation of Tender
- 19.0 **TRANSIT INSURANCE:** Tenderer shall arrange transit insurance on his own and at his own cost for transportation of equipment to JVM, Ranchi.
- 20.0 **NEGLIGENCE, DEFAULT AND RISK PURCHASE**
- 20.1 If the Tenderer fails to execute the work with due diligence or expedition or shall refuse or neglect to comply with any order given to him in writing by JVM in Contract, JVM may give notice in writing to the Tenderer calling upon him to make good the failure, neglect or contravention within such time as may be deemed reasonable and in default of the compliance with the said notice, JVM without prejudice to its rights under the Contract, may rescind or cancel the Contract holding the Tenderer liable for the damages that JVM may sustain in this regard.
- 20.2 Should the Tenderer fail to comply with such notice within a reasonable period from the date of serving thereof, JVM shall have the option and shall be at liberty to take the work wholly or in part out of the Tenderer's scope and may get the same executed by alternate

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agency at Tenderer 's risk and cost. This shall be without prejudice to JVM's rights under other clauses of this Contract.

21.0 **SUSPENSION AND TERMINATION**

21.1 JVM may at any time temporarily stop the work under the Contract or any part thereof by serving notice in writing to the Tenderer . Work so suspended shall be resumed by the Tenderer on receipt of instructions from JVM in writing. JVM will not be liable to the Tenderer for any damage or loss caused by such period of suspension of work.

21.2 JVM will be at liberty to terminate the Contract without prejudicing its right and affecting the obligations of the Tenderer by giving 15 days' notice in writing in the following events:

- a) If the Tenderer fails to comply with the provision/provisions of the Contract.
- b) If the Tenderer is involved in any action involving moral turpitude.

22.0 **Arbitration:**

22.1 Any disputes, differences, whatsoever, arising between the parties, the arbitration shall be governed and regulated in all respect according to Laws of India.

22.2 The Arbitration proceedings in case of other Indian companies shall be regulated and governed by Indian Arbitration and Conciliation Act 1996, or such modification thereof.

22.3 The venue of arbitration proceeding shall be Ranchi.

22.4 Work under this Order shall be continued by the Tenderer during the arbitration proceedings, unless otherwise directed in writing by PURCHASER or unless matter is such that the work cannot possibly be continued until the decision of the arbitrator is obtained.

The tenderers are requested to confirm acceptance of all terms & conditions as per tender enquiry.

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PRINCIPAL

Principal

Jawahar Vidya Mandir
Shyamali, Ranchi



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ANNEXURE – I

Sl. No.	Description	Make	Quantity
1.	<p>Supply, Installation ,testing and commissioning of IR Indoor/Outdoor Dome Cameras along with mounting accessories having</p> <p>Image Sensor- 1/2.7" 2Megapixel progressive CMOS,</p> <p>25/30fps@1080P(1920x1080)</p> <p>Effective Pixels- 1920(H)x1080(V)</p> <p>RAM/ROM -256MB/128MB</p> <p>Scanning System- Progressive</p> <p>Electronic Shutter Speed -Auto/Manual, 1/3~1/100000s</p> <p>Minimum Illumination -0.008Lux/F2.0(Color, 1/3s,30IRE) 0.04Lux/F2.0(Color, 1/30s,30IRE) 0Lux/F2.0(IR on)</p> <p>S/N Ratio- More than 50dB</p> <p>IR Distance -Distance up to minimum 30 m</p> <p>IR On/Off Control- Auto/ Manual</p> <p>Lens Type- Fixed</p> <p>Mount Type -Board-in</p> <p>Focal Length -Minimum 3.6 mm or better</p> <p>Max. Aperture- F2.0</p> <p>Angle of View H: H:112°/88°/55°/41°, V:60°/47°/31°/23°</p> <p>Focus Control -Fixed</p> <p>Close Focus -Distance 0.6m(1.7ft)</p> <p>PTZ Pan/Tilt Range- Pan: 0° ~355°; Tilt: 0° ~75°; Rotation: 0° ~355°</p> <p>Event Trigger- Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly</p> <p>IVS -Tripwire, Intrusion, object abandoned/missing</p> <p>Advanced Intelligent Functions-Face Detection</p> <p>Compression- H.265/H.264H/MJPEG(Sub Stream) Smart Codec -Support H.265+/H.264+</p> <p>Streaming Capability -3 Streams</p> <p>Resolution -1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/VGA(640×480)/CIF(352×288/352×240)</p> <p>Frame Rate -Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps) Third Stream: 1080P(1~14/9fps)</p> <p>Bit Rate Control -CBR/VBR</p> <p>Bit Rate - H.264:16Kbps~8192Kbps</p>	Dahua,Honey well Panasonic, Pelco, Bosch,Hikvision	150 sets

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<p>H.265: 6Kbps~6554Kbps Day/Night- Auto(ICR) / Color / B/W BLC Mode- BLC / HLC / WDR (120db) White Balance -Auto/Natural/Street Lamp/Outdoor/Manual Gain Control -Auto/Manual Noise Reduction -3D DNR Motion Detection -Off / On (4 Zone, Rectangle) Smart IR- Support Digital Zoom -16x Flip -0°/90°/180°/270° Mirror- Off / On Privacy Masking -Off / On (4 Area, Rectangle)</p> <p>Audio Compression-G.711a/ G.711Mu/ AAC/ G.726 Ethernet -RJ-45 (10/100Base-T) Protocol- HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;S MTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UP nP; NTP; Bonjour; IEEE 802.1X;Multicast;ICMP;IGMP;TLS;SSH;NFS; RTCP Interoperability -ONVIF Profile S&G, API Streaming Method -Unicast / Multicast Max. User Access -10 Users / 20 Users Edge Storage -NAS ,Local PC for instant recording ,Micro SD Card 128gb Web Viewer- IE, Chrome, Firefox, Safari Management Software -Smart PSS, DSS, DMSS Phone IOS, Android Certifications Certifications -CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Audio Interface-1/1 channel In/Out Alarm-2 channel In: 5mA 5VDC ,2 channel Out: 300mA 12VDC Power Supply-DC12V PoE (802.3af)(Class 0)</p> <p>Power Consumption-DC12V: 1.9W, 7.4W(IR On),PoE: 2.3W, 8.6W(IR On) Power Out-Support Operating Conditions -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH Storage Conditions -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH Ingress Protection -IP67 Vandal Resistance -IK10 Note-The cameras shall be supplied with all the mounting accessories as required from the</p>		
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	offered OEM only as required.		
2.	<p>Supply, Installation ,testing and commissioning of IR Indoor/Outdoor bullet cameras having Camera Image Sensor- 1/2.7" 2Megapixel progressive CMOS Effective Pixels -1920(H) x1080(V) RAM/ROM -256MB/128MB Scanning System -Progressive Electronic Shutter Speed- Auto/Manual, Auto/Manual, 1/3~1/100000s Minimum Illumination - 0.008Lux/F2.0(Color,1/3s,30IRE) 0.04Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) S/N Ratio- More than 50dB IR Distance - Minimum 40 meters IR On/Off Control- Auto/ Manual Lens Type -Fixed Mount Type -Board-in Focal Length – Minimum 3.6 mm or better Max. Aperture- F2.0 Angle of View - H: 88°/55°/41°/27°, V: 47°/31°/23°/15° Focus Control -Fixed Close Focus Distance -0.9M Intelligence; -Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly IVS -Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions-Face Detection Compression- H.265+/H.265/H.264+/H.264 Smart Codec-Support H.265+/H.264+ Streaming Capability- 3 Streams Resolution - 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240) Frame Rate- Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps),Third Stream: 1080P(1~14/9fps) Bit Rate Control- CBR/VBR Bit Rate- H.264:16Kbps~8192Kbps H.265: 6Kbps~6554Kbps Day/Night -Auto(ICR) / Color / B/W BLC Mode -BLC / HLC / WDR (120db) White Balance -Auto/Natural/Street Lamp/Outdoor/Manual Gain Control -Auto/Manual</p>	Dahua,Honey well Panasonic, Pelco, Bosch,Hikvisio n	50sets.

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	<p>Noise Reduction -3D DNR Motion Detetion- Off / On (4 Zone, Rectangle) Smart IR –Support Digital Zoom- 16x Flip- 0°/90°/180°/270° Mirror -Off / On Privacy Masking -Off / On (4 Area, Rectangle) Compression-G.711a/ G.711Mu/ AAC/ G.726</p> <p>Network Ethernet -RJ-45 (10/100Base-T) Protocol - HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP; RTCP; SSH Interoperability -ONVIF, PROFILE S & G Streaming Method -Unicast / Multicast Max. User Access -10 Users/20 Users Edge Storage -NAS(Network Attached Storage) Local PC for instant recording Mirco SD card 128GB</p> <p>Web Viewer- IE, Chrome, Firefox, Safari Management Software -Smart PSS, DSS, Smart Phone –IOS, Android Phone Certifications Certifications- CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Audio Interface-1/1 channel In/Out Electrical Power Supply -DC12V PoE (802.af),Class-0 Power Consumption- DC12V: 1.6W, 8.9W(IR On) PoE: 2.1W, 10.8W(IR On) Operating Conditions -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH Storage Conditions -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH Ingress Protection- IP67 Note-The cameras shall be supplied with all the mounting accessories as required from the offered OEM as required.</p>		
3.	<p>Supply, Installation, testing and commissioning of Centralised Video Surveillance Server with Main Processor -Intel Core i5, 64 bits 4 Core Processor, Operating System-Embedded Linux Memory-8GB DDR3, Motherboard- Embedded Board (support 7×24 operation), Hot-dipped galvanized sheet steel (1.2mm), Case- High-precise</p>	<p>Dahua, Honeywell Panasonic, Pelco, Bosch, Hikvision.</p>	<p>1 set</p>

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	<p>aluminum alloy slide, pull-out rack design, The Server shall Support H.265+/H.264+. Network Port -4 RJ-45 Ports (10/100/1000Mbps) Ethernet Port- 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports, RS232 Reserved USB- Front panel: 2× USB 2.0, Rear panel: 2 × USB 2.0 HDMI- 2 HDMI (one as network config, another as spare) VGA -1 VGA, as network config Number of Connected Cameras Per Server -500 IP devices and 2000 channels Onvif Device- 100 Auto-Register- 500 devices, 2000channels Mobile DVR Devices 200IP, 800 channels Clients Per System- 200 Online Users Numbers of Users- Unlimited Numbers of Roles- 100 Bandwidth of Video Input per Server -700 Mbps Bandwidth of Video Output per Server -700 Mbps Alarm Inputs -80 /s (Average), 200/s (Peek) HDD Installation- Built-in 1×1T HDD disk (3.5") for system Support 15HDD disks (3.5") for Video or Picture storage (Max support 4T HDD) Storage- Up to 200TB per server HDD Mode -Single, Raid 0/1/5/6/10 Bandwidth of Video Storage per Server-700 Mbps Front Cover- Support Hot-swap Power -10W ~ 200W (with HDD) APROX. Working Environment Temperature- 0° ~ 50° Working Environment Humidity- 5% ~ 90% (non-condensation) Storage Environment Temperature -20° ~ + 70° Storage Environment Humidity- 5% ~ 90% (non-condensation) Working Altitude - 60m ~ 3000m Note-The cameras shall be supplied with all the mounting accessories as required from the offered OEM as required.</p>		
4.	Surveillance HDD of capacity minimum 6TB	Seagate /WD	12 nos.

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5.	24U rack fully loaded (complete with fan, PDU, tray & cable manager) for the servers. Modular Construction of the rack made of 4 vertical, 4 horizontal & 4 depth aluminium alloy extruded multifolded hollow profiles bolted and joined together with Links and Corner Block. 3 pairs of support channel to equate the load evenly and castor provision at bottom side shall be provided. The panel shall comply to UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262, IEC EN 60068-2-11, ISO 9001:2008 standards. The degree of protection shall be IP 42. Paint shade shall be RAL 7035/7037 Fine Texture – 60 to 80uM.	Rittal, Netrack, Valrack	1set
6.	Supply, Installation, testing and commissioning of 8 port layer two Hardened PoE Switch with 8*10/100/1000Mbps PoE ports, 2 *1000Mbps optical ports and 1*10/100/1000Mbps Ethernet uplink port. With high level lightning protection and wide working temperature should have better performance in outdoor or harsh complete with necessary network racks for suitable mounting of switches, patch panel and Cable manager shall be considered.	Make of Switches-Cisco, Netgear, Dahua, Panasonic, Pelco, Bosch, Hikvision Make of Racks- Rittal, Netrack, Valrack	4 Set
7.	Supply, Installation, testing and commissioning of Rack Mounted managed 16 port Gigabit switch 2*10/100/1000 Base-T (Combo port) 2*1000 Base-X (Combo port) 16*10/100 Base-T (PoE power supply), 250 meters long distance PoE transmission · High lightning protection design · Non-blocking video transmission complete with necessary network racks for suitable mounting of switches, patch panel and Cable manager shall be considered .	Make of Switches-Cisco, Netgear, Dahua, Honeywell, Panasonic, Pelco, Bosch, Hikvision Make of Racks- Rittal, Netrack, Valrack	4 Set
8.	Supply, Installation, testing and commissioning of Rack Mount layer 2 management 24 port PoE switch · 2*10/100/1000 Base-T (Combo port) 2*1000 Base-X (Combo port) 24*10/100 Base-T (PoE power supply) PoE budget: 240W, 250 meters long distance PoE transmission provides Non-blocking video, with necessary network racks for suitable mounting of switches, patch panel and Cable manager shall be considered .	Make of Switches-Cisco, Netgear, Dahua, Honeywell, Panasonic, Pelco, Bosch, Hikvision	7Set

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		n Make of Racks- Rittal, Netrack, Valrack	
9.	Supply, Installation, testing and commissioning of 6U Fiber LIU ,Rack Mountable, fully loaded with adapter, Pigtails and fiber management rings • High Density:1U: 6/12/24/48 Fiber terminations Min 4 cable entry points Min 1.6mm CRCA Sheet steel with powder coating , Intertek ETL certified, , ROHS / ELV Compliant.	Molex,Comscope ,Cisco	1 set
10.	Supply, Installation, testing and commissioning of 24U Fiber LIU ,Rack Mount fully loaded with adapter, Pigtails and fiber management rings • High Density:1U: 6/12/24/48 Fiber terminations Min 4 cable entry points Min 1.6mm CRCA Sheet steel with powder coating , Intertek ETL certified, ROHS / ELV Compliant	Molex,Commscope ,Cisco	4 sets
11.	Supply, Installation, testing and commissioning of Client Desktop Station with minimum i7 Processor, 16 GB RAM, 8TB Hard Disk, 8G Graphic Card, DOS based complete with mouse ,keyboard	HP,DELL	1 set
12.	Supply and installation of 20/ 25 mm PVC Conduit heavy duty PVC conduits, ISI mark for laying of Cat 6, Fiber optical cables, power cables.	Reputed	1 Lot
13.	Patch cord 1M cable	Molex , Finolex Commscope	1 Lot
14.	Fiber Patch Cord SC-LC/LC-LC	Molex , Finolex Commscope	1 Lot
15.	Supply and installation of min 50 mm heavy duty conduit for laying of underground cables as per IS 9537 part II. The cables shall be laid at a minimum depth of 1 meters.	Reputed	400 meters
16.	GI Swaged Tubular Pole of 7m height conforming to IS standards along with required civil foundation.	Reputed	12
17.	Supply, laying and termination of CAT6 UTP CABLE, LSZH, Category 6 Unshielded Twisted Pair 4 pair cable ETL 4 connector channel verified to - ANSI/TIA Cat 6 , - ISO 11801 for Class E and - IEEE802.3 for Zero BER ROHS Compliant, UL subject 444.	Molex , Finolex Commscope	12000 meters
18.	Supply, laying and termination of 6 core fiber Single Mode, Armoured SM cable, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d) complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3; suitable for use in direct burial, outdoor ducts and backbone cabling	Molex, Finolex Commscope	2000 meters

Sam
06/02
2019



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	Tenderer shall consider the cable as per layout drawing attached with the Tender document and requirement.		
19.	Supply, laying and termination of 3 Core unarmoured 4 Sq. mm. HR PVC insulated ,FRLS Power Cable for network switches ,LAN Switch , LIU unit ,PC etc.	Poly Cab, KEC,KEI, Havells, Finolex	750
20.	Supply, laying and termination of 3 Core unarmoured 2.5 Sq. mm. HR PVC insulated ,FRLS Power Cable for network switches ,LAN Switch , LIU unit , , PC etc.	Poly Cab, KEC,KEI, Havells, Finolex	750
21.	DP MCB Power Distribution Boards with 16A incomer and 6 nos. of 6A outgoing feeders	L & T, Hensel, C & S, Havells, Le-grand	6
22.	Safe removal & dismantling of already installed cameras along with its associated wiring and safely handing it to Employers' store within the campus		70 CAMERAS /2100 METERS OF WIRING
23.	Installation ,testing and commissioning of free issue cameras and wire along with its wiring		70 nos./2100 meters of wiring
24.	Installation, testing and commissioning of three nos. of free issue 32 CHANNEL DVR (Make –HIKVISION, Model No 7332HGHI-SH SERIES.) at the and complete integration of the system for Control from single location.		1 Lot
25.	Other Network Accessories and video management software as required for complete integration of the system shall be provided by the bidder.		1 lot

NOTE-

The quantities indicated above are tentative and can change as per site requirement.

Sana
06/02/2019



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Annexure - II

Techno – Commercial Bid Declaration by the Bidder:

Sl.No	Description	Indicate also page number where attached
1.	Name, address & telephone number of the agency / firm	
2.	Name, Designation, Address and telephone No. of authorized person	
3.	Please specify as to whether Tenderer is sole Proprietor / Partnership firm / Private or Limited Company	
4.	Copy of PAN card issued by Income Tax Department	
5.	GST Registration (Please attach)	
6.	PF/ ESI Registration No. (Attached the copy as mentioned is eligibility criteria).	
7.	Copy of Work order attached	
8.	Details of Bid Earnest Money Deposit: a) Amount: b) Demand Draft / Banker's Cheque No: c) Date of issue: d) Name of issuing Bank:	

This is to certify that I / We before signing this tender have read and fully understood all the terms and conditions contained in the tender document and undertake myself / ourselves to strictly abide by them.

Signature of the Tenderer with Seal



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Annexure – III

Sl. no	Equipment	Quantity	Make & Model	T.S. Complied (Yes/ No)	Price Quoted (Yes/ No)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Signature of the Tenderer with Seal



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Annexure – IV

Price Bid Format

SNo.	Equipment	Quantity	Unit Rate	GST	Total Amount
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Declaration by the Bidder:

I have carefully gone through the Terms and Conditions contained in the Tender Document (JVM/OT-15/2018-2019 Dated. 06.02.2019) Supply, Installation and Commissioning of CCTV System at Jawahar Vidya Mandir, Shyamali, Ranchi All the Terms and Conditions of the tender enquiry are acceptable to us.

Signature of the Tenderer with Seal