



JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002

Aff. No. 3430004
School Aff. No. 66230
Ph. 2411221, 2411665

जवाहर विद्या मंदिर, श्यामली, राँची - 834002

No. JVM/OT- 07/ CCTV/2024-25

Dated 14-11-2024

INVITATION TO TENDER

Principal, JVM invites tender for the subject given below. Salient feature are given in the table and detail of scope of work and tender conditions are given in the 'Invitation to tender' dated 14-11-2024 enclosed herewith.

Sub: Supply ,Erection, Testing of IP Based Close circuit Video Monitoring (CCVM) System at JVM Shyamali, Ranchi.834002

Salient Features of the Invitation to Tender

1	Tender Enquiry No. & Date	JVM/OT-07 /2024-25 Date: 14-11-2024
2	Project Description	Supply ,Erection, Testing of IP Based Close circuit Video Monitoring (CCVM) System at JVM Shyamali, Ranchi.834002
3	Date of floating of on-line Tender	14-11-2024
4	Last date & time of submission of tender document	29-11-2024 by 01.00 PM
5	Date & Time of Opening of Tender	29-11-2024 at 04.00 PM .
6	Validity of tender	06 (Six) months from the date of opening of Techno-Commercial part of the tender document.
7	Project Completion Time	03 (Three) months from the date of issue of work order.
8	Earnest Money Deposit	Rs. 40,000/- (Forty Thousand Only)
9	Cost of the tender document	Rs. 2000/- (Two Thousand Only)

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14/11/2024
(SAMARJIT JANA)

PRINCIPAL **Samarjit Jana**
Principal
Jawahar Vidya Mandir
Shyamali, Ranchi-2.
Aff. No.- 3430004 (66230)



Dated: 14-11-2024

INVITATION TO TENDER

Sub: Supply ,Erection, Testing of IP Based Close circuit Video Monitoring (CCVM)System at JVM Shyamali, Ranchi.834002

Sealed tenders are invited for : **Supply ,Erection, Testing of IP Based Close circuit Video Monitoring (CCVM)System at JVM Shyamali, Ranchi.834002** , as per the Technical Specification attached from experienced and eligible Contractor who have executed similar nature of work as per eligibility criteria and satisfying all the terms and conditions.

- 1.1 Tenderers are advised to visit the site and go through the entire documents completely before quoting for the tender.
- 1.2 The detailed technical specification and Bill of Quantity (BOQ) is given in Annexure-1, 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 CCTV system are deemed to be included in the scope of the tender unless specifically excluded without any extra cost.
- 1.3 Tenders are invited in a two bid system comprising of Part A- Techno-commercial Bid & Part B - Price Bid.

The 'Techno- commercial Bid' will be made and put in the first envelope containing the title '**Techno-Commercial Bid**'. This shall include full information as required in Techno Commercial Bid Declaration by the Bidder ..

The 'Price Bid' will be made and put in the second envelope containing the title '**Price Bid**'. It shall include full information as required in price schedule format-

Both the bids shall be put in the third envelope which should be prominently super-scribed as "Supply ,Erection, Testing of IP Based Close circuit Video Monitoring (CCVM)System at JVM Shyamali, Ranchi.834002", and shall be submitted on or before **29.11.2024 till 1.00 PM.**

The scheduled time for opening of tenders shall be 4.00 PM IST on 29-11-2024

- 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 Incomplete tender in any respect or conditional tender will not be accepted.

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Note:

The bidder shall submit self-attested copies of the following:

1. Copy of Audited Annual Financial Reports for last 3 (three) consecutive financial years ending 31st March 2024 (Balance Sheet and Profit & Loss Account).
2. Chartered Accountant's certificate with UDIN no., in Original, may be submitted to substantiate the above financial eligibility.
The documents furnished by Bidders for establishing their financial eligibility should clearly indicate the details of the Membership No., Firm No. of the Chartered Accountant.
3. Chartered Accountant's certificate with UDIN no., in Original to be submitted by the bidder indicating the value of Existing commitments as on 31.03.2024 including on-going pending works i.e balance work to be done as on 31.03.2024 as well as the stipulated period of completion remaining for each of the works as per work order and in case of extension provided the extended completion date also.

The documents furnished by Bidders for establishing their financial eligibility should clearly indicate the details of the Membership No., Firm No. of the Chartered Accountant.

2.4 Commercial:

The bidder shall submit self-attested copies of the following:

1. Cover letter of Tender detailing list of contents in the bid document being submitted by the Bidder.
2. Un-priced Price schedule as per format enclosed with tender document indicating 'quoted' in price column.
3. Signed & Stamped copy of terms and conditions of the contract
4. Copy of GST Registration Certificate with valid GST registration no. and PAN details

2.5 Earnest Money Deposit:

All the tenders shall be accompanied by EMD (Earnest money deposit) of Rs. 40,000/- (Rs Forty thousand only) payable to 'Jawahar Vidya Mandir, Shyamali Ranchi' in the form of demand draft.

Tenders received without EMD are liable to be rejected. EMD shall be refunded to successful bidder after execution of order and to unsuccessful bidder after finalization of work order.

2.6 Cost of the Tender:

The Bidder shall submit a non-refundable cost of the tender- **Rs.2000/- (Two thousand only)** in the form of a Demand draft drawn on any Nationalized/ Schedule Bank in favour of 'Jawahar Vidya Mandir, Shyamali Ranchi'.

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PART B: Price Part

2.7 Price Schedule:

- a. Bidder shall submit their Price bid strictly as per the Price Schedule Format- Annexure I provided along-with this bid document. Price submitted by Bidder in any other format shall render their offer invalid and shall not be considered for evaluation.
- b. There shall be no change or addition/ deletion except for filling-up of the actual price/ rate in the Price part submitted in Part – B
- c. Price part shall contain rate and cost against all items of BOQ and total cost indicating incidence of tax (rates), if any, as per enclosed price format without any terms & conditions.
- d. Any change in Price Schedule format shall be notified through corrigendum/addendum and the same shall be considered for submission of price bid. In case Bidders have already submitted their bid before publishing of corrigendum/addendum related to change in price schedule format, the bidders are requested to re-submit price bid as per the changed Price Schedule format. Failure to re-submit the bid in such case may lead to auto rejection of the bid by the system.
- e. Bidder must quote against all the items in Price Schedule enclosed with this tender. Part quotation (Part Order) is not acceptable for this package.

The bidder shall quote increment/ decrement percentage (%) on the declared estimated total basic price given in the Price Schedule of the tender. The increment/ decrement percentage (%) indicated above shall be equally applicable on all the items of Price Schedule. In case bidders indicate "No Change", price against all the individual items as indicated in the Price Schedule shall remain unaltered

- f. In case of Tie among lowest bidders, the L-1 bidder shall be decided through lottery among all the bidders whose quoted price is lowest. Decision of tendering authority shall be final & binding to all parties

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

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).

5.0 TAXES & DUTIES

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Except as otherwise specifically provided in the order, the Tenderer shall bear and pay all taxes, duties, levies as charges for the subject work.

6.0 VALIDITY OF RATES

The rate quoted by the Tenderer shall remain valid for a period of 6 (Six) months from the date of opening of quotation.

7.0 TIME SCHEDULE

The successful Tenderer shall be required to complete the job within 3 (Three) months from the date of receipt of order.

8.0 PAYMENT TERMS

The payment shall be released on submission of R.A Bill by Contractor duly certified by Supervisor / Engineer in-charge of JVM Shyamali.

9.0 INSPECTION:

The inspection of materials shall be carried out by JVM after receipt of materials at construction site.

In the event the supplied material is not conforming to the ordering specification and Preferred make / brand, the material so supplied will be rejected without paying any price/ compensation. The decision of Engineer in-charge, JVM in this regard will be final.

10.0 LIQUIDATED DAMAGES:

Time and date stipulated in the Contract for completion of delivery shall be deemed to be the important activity of the Contract. If, however, the Tenderer fails to fulfill the completion 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 not 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.


11.0 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.

12.0 EVALUATION OF TENDER:

Tenderer should quote for all the items as per enclosed price bid format (Annexure-I). Part offer or incomplete offer shall be liable to be rejected. Price of the techno-commercially eligible tenderer shall be evaluated on overall basis.


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13.0 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.

14.0 TRANSIT INSURANCE:

Tenderer shall arrange transit insurance on his own and at his own cost for transportation of material and equipment to JVM, Ranchi.

15.0 NEGLIGENCE, DEFAULT AND RISK PURCHASE:

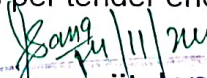
If the Tenderer fails to execute the work with due diligence or expedition or shall refuse or neglect to comply with any order given to him in writing by JVM in Contract, JVM may give notice in writing to the Tenderer calling upon him to make good the failure, neglect or contravention within such time 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.

16.0 SUSPENSION AND TERMINATION

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. 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 case when a) If the Tenderer fails to comply with the provisions of the Contract and b) If the Tenderer is involved in any action involving moral turpitude.

17.0 ARBITRATION

Any disputes, differences, whatsoever, arising between the parties, the arbitration shall be governed and regulated in all respect according to Laws of India. 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. The venue of arbitration proceeding shall be Ranchi. 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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01 INTRODUCTION

1.1 GENERAL

JVM Shyamali School is Located in Doranda and lies in the Ranchi District of Jharkhand.

The intent of this specification is to provide IP based Closed Circuit Video Monitoring (CCVM) Surveillance System in JVM Shyamali School for the safety and security of the students. The area to be covered in this tender is Primary Block, Golden jubilee block and Sports complex area and corridors.

The CCVM system specified in this specification shall be suitably designed & provided by Tenderer for safe, reliable and trouble-free operation on continuous basis without any interruption with minimum intervention of the operating personnel. The CCVM system shall be IP based with the latest state of the art technology.

Basic requirement of the system is specified in this Technical specification

(TS).Any

specific details/ requirement not mentioned in the TS but required for

INTENT OF SPECIFICATION

- 1.0 Tenderer shall properly go through the Tender document and clearly understand the entire requirement. Any further information required in this regard, shall be taken up with Purchaser for clarification/ clarity. In the offer, Tenderer shall submit their compliance to the requirement indicated against respective clauses in the TS.

Eligibility Criteria (Technical):

1. The tenderer shall be OEM of IP based CCTV units or OEM's authorized dealer /distributor or any Contractor for IP based CCTV based surveillance system and shall be acting as sole bidder only. In case of authorised dealer/distributor, tenderer shall

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submit Authorisation Certificate from OEM, in original, on OEM's letter head duly signed by authorised signatory valid for the entire project schedule.

2. Tenderer should have successfully executed Engineering, Supply, Erection/installation, and Commissioning of Closed Circuit TV system in industries/plants/ banks/ institutions/ cities during the last 7 years ending last day of month previous to the one in which this bid is invited satisfying the following criteria:

i) One similar completed work of a value not less than Rs.12.5 Lakhs.

OR

ii) Two similar completed works, value of each work being not less than Rs. 10 lakhs.

OR

iii) Three similar completed works, value of each work being not less than Rs.7.5 Lakhs.

3. In support of above-mentioned experience, Tenderer shall submit self-attested copy of work order/ purchase order/ Letter of Award/ Contract agreement, along with corresponding self-attested copy of the following document;

- i) Completion Certificate from Purchaser, or,
- ii) Performance certificate from Purchaser, or,
- iii) Commissioning certificate from Purchaser.

4. Tenderer should not have been suspended, banned or delisted by any Government/Quasi Government agency or Public sector undertaking at the time of bidding. Bidder shall submit a declaration regarding the same.

Tenderer not complying with above requirement will not be considered for evaluation

In case bidder has executed work of larger value in a longer duration, portion of work executed during qualifying period of last seven years shall be considered. In case the work is in progress, value of work executed during the qualifying period shall be considered.

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2.3 Financial Eligibility Criteria

2.3.1 The average annual financial turnover of the Bidder during last (3) three consecutive financial years ending 31st March 2024 shall not be less than Rs 20 lakh.

2.3.2 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is equal to or more than the total bid value. The available bid capacity will be calculated as under:

Accessed available bid capacity is equal to: $(A*M*N)-B$

where, A = Maximum turn over in any one year during last 5 years ending with FY 2023-24.

N = No. of years prescribed for completion of work i.e. 0.5

M=2

B=Value of existing commitment and ongoing works to be completed during proposed proposal of completion of work.

Tenderer shall submit NO DEVIATION DECLARATION in their company letterhead.

3.0 Before submission of the tender, tenderer shall visit site, make feasibility survey & review all the location of cameras, central control room & other facilities as specified in the TS;; so that proper selection of items and in turn proposal of the overall system can be finalized at their end. Any further changes if felt necessary by them during detailed engineering stage is the responsibility of Tenderer and shall be provided without any commercial implication.

4.0 Cabling work for power supply & earthing of respective equipment as well as FO cable laying at some local level for signal transmission needs to be considered by Tenderer in their system design. Accordingly, supply of necessary copper cables & FO cables along with their erection shall be included in the scope by the Tenderer. During installation/erection of cameras & other hardware and cabling work, proper care shall be taken by

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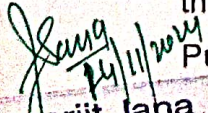


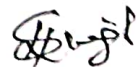
successful Tenderer so that aesthetic of the premise is not affected or no damage to the existing facilities occurs.

- 5.0 If the equipment and / or parts thereof are found to be defective at site, even after purchaser's dispatch clearance, the successful Tenderer shall be responsible for replacing all defective parts / equipment including deputation of service engineer for replacement / rectification work without any implication to the purchaser.
- 6.0 Inscriptions on equipment, operating and maintenance manuals, technical catalogues, test certificates, explanatory notes in drawings etc. shall be in English language.
- 7.0 All equipment shall be supplied from the make list provided. All CCVM equipments shall be of CE/UL/ FCC certified.

After erection & trial run of the system by successful Tenderer, the complete system has to successfully operate for fifteen (15) consecutive days without any failure & complications. Once the same is established, the system will be declared commissioned and taken over by Purchaser.

- 9.0 Prior to start of this commissioning activity, successful tenderer shall prepare and submit a Commissioning protocol to Purchaser for acceptance, identifying all the items of the complete system whose status & performance has to be filled-up during the 15 days period. This filled-up document shall be signed by representative of both Purchaser & successful tenderer. In case of any issue faced during this period, successful tenderer shall do the corrective action and once again repeat the 15 days testing period or as mutually discussed and finalized by Purchaser.


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- 10.0 The supplied equipment and system shall have one year of warranty period which will start after successful handing over of the complete system to Purchaser.
- 11.0 During detailed engineering stage, successful Tenderer shall depute their competent persons at JVM, Ranchi, for across the table finalization of drawings & documents with due appointment from Purchaser and after at least 15 days of submission of drawings & document.
- 12.0 Along with their offer, Tenderer shall submit a bar chart of activities of this project indicating starting and completion date of each activity such as preparation & submission of drawings, placement of order for bought out items/ services, inspection at works & at site, supply, setting of office at site, construction/ fabrication of work at site, erection, testing & commissioning.

All spares & consumables required during erection & commissioning of the supplied system are included in the scope of supply of Tenderer.

- 14.0 Tenderer shall be either OEM of CCVM system envisaged in this TS or an experienced system designer of IP based CCVM system. In the event Tenderer is not an OEM, they shall have proper back-up & support from the OEMs to help them in the event of any technical issues during execution of this project. They shall also ensure continuity of availability of all the selected items for minimum 5 years from commissioning.

- 15.0 JVM Shyamali may reject/cancel the bid if any OEM is not deemed fit as per Government /Intelligence/ Cyber Security/ Internal Classified Reports and use only Government Approved OEMs products and equipment's.

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- 16.0 All the equipment and supplies shall be suitable for the tropical climatic conditions prevailing at Ranchi, Jharkhand.
- 17.0 The time allowed to Contractor for commissioning of the facilities covered under this package is 03 (Months) months from the date as stated in the contract.

3.0 SCOPE OF WORK

The scope of work of Tenderer shall include design, engineering, manufacture, offer for inspection, factory testing, packing, supply at site (complete hardware, software, erection materials & accessories etc.), erection/installation, testing and commissioning and handing over of complete IP based Closed Circuit Video Monitoring (CCVM) Surveillance System with its associated hardware, software, accessories. The details of equipment and Technical specifications of the equipment to be supplied by tenderer have been elaborated in this TS. **Bidder to note that area where existing cameras are installed and not working shall be replaced and connected to the new network. The existing conduit, UPS power supply shall be used if it is in good condition. New conduit and wiring shall be provided for new areas.**

The scope of work of supply and services shall include but not limited to the following:

1. IP based Closed Circuit Video Monitoring (CCVM) Surveillance System including IP based Bullet & dome Cameras and associated power supply adaptors.
2. Network Video Recorders, Work Station Computer for NMS, Network Monitoring System & Software (NMS) with licenses, Network Switches, Ultra-Wide 65 Inch UHD LED TV with Wall Mounting arrangement, UPS

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and other components connected to the system.

3. Supply of all the required software with licenses, if applicable. Development & implementation of application & display software for this project.
4. Supply, laying and termination of CAT6 Ethernet Armoured STP Cable, HDMI Cable and other required cables.
5. Power supply to panel mounted/field equipment such as Cameras, Subscriber Units, Ethernet Switches, etc. is to be tapped from the nearest power source located at different location in the School.
6. Supply, erection testing and commissioning of UPS as mentioned in the TS.
7. Supply, laying/installation of all other erection items such as PVC pipe, PVC casings & capping, connectors, and other erection hardware & accessories, etc. required for installation of the CCVM System.
8. All civil & structural works for installation of camera, network switches etc.
9. Integration of various components mentioned above and establishing the connectivity among all components of the system.
10. All necessary civil & structural works as may be required during erection of various equipment, laying of cables, etc.
11. Submission of all drawings & documents.
12. Erection, testing & commissioning of the complete system.
13. Tenderer shall arrange and bring their tools & tackles, special testing equipment, consumables and any spares required for erection, testing and commissioning activities.

Tenderer shall depute skilled technical personnel along with other

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categories of personnel in required numbers at site for the erection, testing and commissioning of the CCVM system at site. In the event Tenderer is not an OEM, then deputation of supervisor of OEM at site during erection & commissioning, if required, shall also be included in Tenderer's scope.

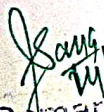
15. Items not specifically mentioned but considered necessary for completion of the CCVM system in all respect are considered as included in the scope of work & supply of the tenderer. The tenderer will indicate the same.
16. Selection & supply of items from the List of Makes specified in the TS. The items for which makes are not specified in the TS, Tenderer shall select the same from reputed manufacturers with due clearance from Purchaser. List of such makes shall be indicated in the Offer.
17. Compliance with all the clauses as specified in this TS.

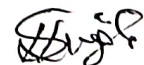
4.0 GUARANTEE/WARRANTY

The tenderer shall stand guarantee for the trouble-free operation and satisfactory performance of all the equipment supplied by them till completion of one year Warrantee period which will commence from taking over date of the system by Purchaser.

The guarantee shall cover faulty design, materials, workmanship, etc. The successful Tenderer shall do all rectification in the implemented system or replacement of any faulty equipment & accessories during this period as well as during erection & commissioning of the equipment & system without any commercial implication to Purchaser. Replacement of faulty equipment & accessories damaged during transportation and any updation/ rectification of installed software, as may be required during this period, is also included in the

scope of successful Tenderer.


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Tenderer shall confirm that they shall attend & rectify the faulty equipment/ system within five working days of reporting the same by Purchaser.

5.0 INSPECTION AND TESTING

The tenderer shall submit QAP for all items to be supplied by them within 15 days of placement of order. The inspection procedure shall be finalised and approved by purchaser. Inspection will be carried out as per the approved drawings / specifications and quality assurance plan approved by the purchaser. All inspection shall be carried out at the manufacturer's shop/works.

No equipment or part items and software shall be dispatched without final acceptance certificate and dispatch instructions issued by purchaser.

Routine tests as per latest relevant Indian standards and other tests as agreed with the purchaser shall be carried out on all panels/equipment. Purchaser may participate during the Inspection. In all the cases, test certificates shall be submitted.

The vendor shall make all arrangements for conducting tests.

The purchaser shall have the option to visit the place of manufacture for stage inspection and/or final inspection before dispatch of the equipment. The supplier has to make all arrangements for providing the necessary tools, tackles and instruments free of cost to carry out the inspection. The supplier shall extend all facilities for inspection purpose free of cost.

In case of inspection waiver, to initiate delivery of items/ equipment, successful Tenderer shall submit their internal test report for all the equipments/ hardware for Purchaser's review. In the event of receipt of correct documents, inspection waiver or dispatch clearance from Purchaser will be issued within 7 days of

receipt of document.

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The supplier shall give the final inspection call with a clear margin of minimum 15 days. The final inspection call shall be sent along with copies of internal/ shop test/ inspection reports and acceptance, material test certificates from Govt. approved test laboratory (physical and chemical, etc.). The supplier shall ensure that all equipment / parts must be available for inspection in the vendor's shop prior to inspection. All loose parts are to be labelled with reference numbers corresponding to the bill of materials and the approved drawings.

Acceptance of equipment after inspection does not absolve or relieve the supplier from any of his obligations and he shall be wholly and solely responsible for the satisfactory operation and guaranteed performance of his supply. The supplier shall be responsible for replacement of the equipment if any defect is noticed at site or during subsequent stage of installation, testing and commissioning which will impair its satisfactory performance.


The supplier shall fully bear the cost arising out of replacement without any claim and without affecting the project schedule.

Any delay in the schedule of delivery due to re-inspection/rejection of items shall be solely to the account of the supplier.

6.0 TECHNICAL SPECIFICATION OF EQUIPMENT

6.1 Day/Night IP HD camera with IR (minimum 2 mega pixel): -

S.N	Parameter	Specification
1.	Image sensor	1/3" or better type CMOS color Sensor
2.	Effective Pixels	1920 X 1080
3.	Scanning System	Progressive Scan
4.	Resolution	1080p Full HD images up to 25/30 fps


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5.	Frame Rate	25 FPS/30 FPS for 1920 X 1080p at H.264 Compression or better
6.	Compression	H.264 Compression (main profile/high profile) and MJPEG
7.	Bit Rate	32kbps – 10Mbps
8.	Intelligent Video	Motion detection etc.

6.2 Network Video Recorder

S.N	Parameter	Specification
1.	IP Camera Inputs	As Required
2.	Video O/P	1 HDMI , 1 VGA
3.	Compression	H.264 / MJPEG
4.	Video Resolution	2560 X 1920 , 2048 X 1536, 1920 X 1080, 1280 X 720
5.	Recording Resolution	1920 X 1080
6.	Recording Speed	upto 30 fps per channel

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7.	Video Detection	Motion, Video Loss, Camera Blank
8.	Hard Disk	Vendor to specify the offered HDD capacity considering 15 days of video storage along with calculation.
9.	Smart Phone Surveillance Support	iPhone, iPad, Android, Windows Phone
10.	Protocol	IPv4/IPv6, HTTP, TCP/IP, UDP, UPnP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter
11.	Recording Mode	Manual, Schedule, STOP, Alarm and MD
12.	Search Mode	Time/Date, Alarm, Motion Detection, Exact Search (accurate to second)
13.	Playback	Play, Stop, Pause, Rewind, Fast Play, slow play, full screen, backup
14.	Backup Mode	USB Device / Network
15.	Interface Ports	USB 2.0 port, USB 3.0 port, 1 RS485, 1 RS232, 1 RJ45
16.	Ethernet Ports	1 RJ-45 port (10/100M Base T)
17.	Power Supply	AC 100V~240V 50/60Hz
18.	Product warranty	atleast 2 years

6.3 POE Switch

S.N	Parameter	Specification
1.	RJ45 ports	Minimum 8 nos. 10/100/1000 BASE-T Ethernet Ports. Uplink port should have sufficient speed to avoid network congestion, preferably network should not be loaded more than 70% at any stage, fully IEEE 802.3 compliant.

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2.	Protocols and compliances	The switch should provide all standard protocols and compliances
3.	Power input	Dual redundant power input, PoE
4.	Mounting	Rackmount, wall or desktop mounting options

6.4 Work Station PC

Specification	Description
Processor Type	10 th Gen Intel Core I7 or above, intel Chipset OEM Motherboard, four DIMM Slot
Processor Speed	3.0 GHz or More
No. of Processor	One
Internal Cache	Min 16 MB or Higher
RAM	16 GB DDR4 SDRAM Expandable up to 64 GB
Hard Disk	1TB 7200 RPM or Higher SATA HDD
Port	Min. 4 USB
Network	2 Nos. of NIC 100/1000 Mbps Ethernet
Monitor	22 Inch or higher LED Monitor same make of OEM
Keyboard and Mouse	Wireless Keyboard and 2 button USB optical Scroll mouse
Operation System	Windows 10 Professional of Above 64 bit (with License and media)
Accessories	External HDD 1 TB, Power Cable
Warranty	Min 1 year or as per OEM Whichever is more

6.5 65 Inch LED TV

Specification	Description
Screen Size (In Inches)	65 Inch
Screen Type	QLED
TV Type	Smart UHD TV

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Picture Processor	Quad Core Processor / 4K processor
Resolution (Horizontal X Vertical)	3840x2160
Bluetooth	Yes
4K HDR Support, HDR10+, Micro Dimming, Supreme Dimming Support, Voice Recognition, Smart Tv OS: Android, Web OS, Etc. Chromecast/screen Mirroring Support, 2 X USB 3.0, 4 XHDMI port along with Wi-Fi connectivity. Shall Include OEM Wall Mount Bracket	

6.6 CAT 6 STP cable (Armoured)

Cat6 cable shall have 23 AWG 4 Pair bare solid copper conductor, CAT-6 STP Cable, Channel optimized to 250 Mhz.

6.7 Network Rack

Network Rack of min. size 12U shall host the NVRs, network switch and patch panel in the Control room. The rack shall be of wall mount type and provided with required powersockets, cooling fan, cable manager and mounting frames.

The rack shall be made from steel sheet and powder coated. Front shall be glass door with lock and key. Legend plates, cable entries and earthing shall be provided.

6.8 Power supply equipment

UPS power supply to be provided for all equipment in the control room i.e., NVRs, Operator station PC, LED display, Network switch & it's associated devices.

Uninterrupted Power Supply (UPS) system with independent battery bank will be provided. The UPS unit will be designed to support the full load condition of proposed system & it's associated devices with 30% spare capacity.

The backup battery set will be of sealed maintenance free lead-acid type (12V cells) with its AH capacity sufficient to supply continuous power to the complete system & associated equipment at its full load capacity for at least 6 hours in case of AC mains failure with 30% spare capacity.

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Purchaser will arrange power supply feeders at Central Control Room. Supply of cable including termination at both ends and further distribution for the proposed system is in the scope of Tenderer

7.0

PROJECT SCHEDULE & PROGRESS MONITORING

The overall schedule for completion of the project shall be 3 months from **Zero date**, which shall be reckoned as Effective date of contract for the contract. **Zero date and commissioning mentioned above and as shown in the schedule shall be same as defined in the technical and commercial part of the specification.**

8.0

LIST OF PREFERRED MAKES

Equipment / Item	Makes
CCTV Camera	BOSCH / PELCO / SONY / HONEYWELL / PANASONIC / HANWHA / PRAMA HIKVISION / CP PLUS / TYCO / NORDEN
Camera Housing With IR	Bosch, Honeywell, Pelco, Infinova, HANWHA/PRAMA HIKVISION / CP PLUS / TYCO / NORDEN
Network Video Recorder(NVR)	Bosch, Honeywell, Pelco, Infinova, Sony HANWHA/ PRAMA HIKVISION / CP PLUS / TYCO / NORDEN
Network Switch	Cisco, Hirschman, Moxa, Siemens, Net gear
Network Management System	Intermapper, Cambium, Siemens
Network Rack	Valrack/Rittal/HCL/Schneider Electric
UPS system	Emerson / APC/ VERTIV/ FUJI/ HITACHI- HI-REL/SCHENIDER
Battery	EXIDE/ HBL-NIFE/ AMAR RAJA/ AMCO-
Access Point/ Subscriber Unit	Cambium, Elpro, Prosoft, Teletronics, Radwin, Aperto
Work Station PC	Dell, HP, Lenovo
Display Monitor/ TV	LG/ Samsung/ Sony


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Power Cable	Finolex/ Polycab/ Havells
Cat6 Cable	Finolex/ Polycab, Havells

*Prior approval shall be taken for makes not mentioned in the make list.

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9.0 BILL OF QUANTITIES:

A. Supply of Materials:

Sl No	Description	Unit	Qty	Unit Price	Total Price
1.	2MP , IR IP Vandal Proof Dome Camera as per TS	Nos	60		
2.	2MP IR IP H.265 Bullet Camera as per TS.	Nos	12		
3.	128Ch Embedded Network Video Recorder Supports 4K Cameras, HDMI, VGA, RAID, Smart Analytics and ONVIF	Nos	1		
4.	Managed Network Switch with 24 x PoE RJ45, 2 x SFP uplink ports	set	3		
5.	Managed Network Switch with 16 x PoE RJ45, 2 x SFP uplink ports	set	3		
6.	Managed Network Switch with 8 x PoE RJ45, 2 x SFP uplink ports	set	1		
7.	Workstation PC	set	1		
8.	Network Switch with 4 x PoE RJ45, 4 x SFP uplink ports	set	1		
9.	65 Inch LED Display along with Wall mounted accessories and HDMI Cable	set	1		
10.	Shielded RJ 45 Connectors	Nos	150		
11.	Fully loaded 6 ports SC type LIU Box with two glands ports	set	8		
12.	Cat-6 shielded cable	metres	2000		

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13.	6 Core Single Mode shielded OFC Cable	metre s	500		
14.	Single Mode SC to SFP Patch Cords	Nos	15		
15.	3 Core Shielded Power Cable	metre s	500		
16.	12 V Battery Bank 65 Ah with Stand	set	16		
17.	5 KVA UPS Input & output Voltage 220V-240V AC Single Phase , 50 Hz	No	1		
18.	PVC Electrical Casing	metre s	400		
19.	Wall mount 4 U Rack alongwith PDB Box	set	7		
20.	Floor mount 12 U Rack alongwith PDB Box	set	1		
21.	PVC/Gang Box, Flexible Conduit, and Other Materials for Installation of Camera	lot	1		

B. Installation Testing and Commissioning

SI No	Description	Unit	Qty	Unit Price	Total Price
1.	Installation Testing and Commissioning on turnkeybasis as per Scope of work	lot	1		

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