



GOVT OF ODISHA

**OFFICE OF THE COLLECTOR, KANDHAMALA, PHULBANI**  
**(ST & SC Development Section)**

e-mail:- [dwo.kandhamal@gmail.com](mailto:dwo.kandhamal@gmail.com)

No. 809/ VI -56/2026

Dt:- 24/02/2026

**TENDER CALL NOTICE**

Sealed Tenders are invited under Two Bid System from reputed and experienced Agencies / Firms / Suppliers of Odisha for supply, installation & commissioning of IP-based CCTV Cameras of reputed brands in the SSD M&BCW Deptt Hostels in Kandhamal district with Centralized Monitoring System @ O/o DWO Kandhamal. The details of the bidding process are as follows:-

Sl. No.	Bidding Schedule	Dateline
1	Date of Issue	24-02-2026
2	Last Date and Time of receipt of Bid	06-03-2026, 2PM
3	Opening of Technical Bid	06-03-2026, 3PM
4	Opening of Financial Bid	06-03-2026, 5PM

Bidders are required to submit the Technical and Financial bids separately. The bids in sealed cover-I containing "Technical Bid" and the sealed cover-II containing "Financial Bid" should be placed in a third sealed cover super-scribed "Bid for supply, installation & commissioning of CCTV Cameras in the SSD M&BCW Deptt Hostels in Kandhamal district with Centralized Monitoring System" and must reach the O/o DWO Kandhamal as per the schedule above by Speed Post/Registered Post only. The Bid documents containing eligibility criteria, terms and conditions of the tender can be downloaded from the district website [www.kandhamal.odisha.gov.in](http://www.kandhamal.odisha.gov.in). The Authority reserves the right to cancel / modify the Tender/Procurement Process without assigning any reason thereof. The Authority also reserves the right to reject any or all the Tender/Tenders without assigning any reason thereof.

**Complete Address for submission of Bid:**

The DWO, Collectorate,  
At/Po:- Phulbani,  
Dist-Kandhamal, Odisha,  
Pin Code: 762001.

  
**Collector & District Magistrate,**  
**Kandhamal.**

Collector  
Kandhamal Phulban

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*D. Mishra*  
24/2/26  
District Welfare Officer,  
Kandhamal, Phulbani

## Section I

### General Terms & conditions

The Bidder must submit EMD of Rs.3,00,000/- (Rupees Three Lakh) only in shape of Demand Draft in favor of District Welfare Officer, Kandhamal payable at Phulbani failing which the bid will be outrightly rejected. The EMD of the selected Bidder will be retained till the expiry of the warranty period; and others will be refunded after the tender process is over.

The Bidder must submit the copy of the Tender Paper (each page must be signed and sealed by the Bidder) along with all required documents and Demand Draft of Rs.5,000/- (Five Thousand) only (Non-Refundable) towards Tender Paper cost in favor of District Welfare Officer, Kandhamal payable at Phulbani. The Tender Paper can be downloaded from the District Website [www.kandhamal.odisha.gov.in](http://www.kandhamal.odisha.gov.in). Any deviation from the prescribed procedures, required information, formats, conditions shall result in outright rejection of the bid. Any conditional bid shall also be outrightly rejected. All entries in the pages of the bid document must be neatly computerized, be legible and be signed by the Bidder. If the space for furnishing information is insufficient, a separate sheet duly signed by the Bidder should be attached.

The Bidder must submit valid GST Registration Certificate & latest returns (GSTR3B & GSTR1) for the preceding 03 months, PAN details, IT Returns for the last 03 Financial Years (FY 2022-23 to FY 2024-25), TAN Certificate, valid Trade License, Professional Tax Certificate for last 03 financial years from 2022-23 to 2024-25, and documents in support of his Annual Turn Over for last 03 financial years (FY 2022-23 to FY 2024-25) on CA Letter Head with UDIN number as mentioned in the Application Form. Annual Turn Over of the Bidder must be Rs. 10 Crore (Rupees Ten Crore) or more during each of the last 03 (three) Financial Years from 2022-23 to 2024-25.

The price offered by the Bidder must include machine cost, all taxes, transportation, demo, installation & commissioning charges at Hostel points as will be provided in the list.

Bidder must provide Escalation Matrix of Telephone Numbers of Bidder as well as OEM for Service Support having authorized Service Center in Odisha. The Bidder must submit valid OEM authorization in its favour in OEM Letter Head with Seal, Signature, Name, Email ID, Designation and Contact Number of the OEM. It must contain the Bidder's name with details of communication address.

  
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Data Sheets of the product offered in the bid are to be submitted along with the Bid documents. Buyer can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection. The technical specifications of the Products are given at Annexures-A/B/C/D/E/ (subject to Govt. of India Approval only). The following terms and conditions are to be complied to by the Bidders while applying for this tender.

1. All systems and components must be in compliance with CE/ FCC/ BIS certifications. The BIS certification address and factory address must be same.
2. The OEM should have its own factory in India. The OEM should offer India factory license in its own name.
3. The OEM factory should be registered in the OEMs name itself. OEMs getting their products manufactured by a third-party manufacturing company will not be considered eligible.
4. The OEM should offer ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013, for their manufacturing process.
5. The OEM should have CMMI level 5 certification to validate its performance across a range of critical business capabilities, including product development, Service excellence, workforce management, data management, supplier management, and cyber security.
6. The quoted CCTV OEM should be a Full member of ONVIF. For verification purposes, all the relevant details should be available on the ONVIF website. The OEM should give the declaration about its full membership.
7. The OEM should have started manufacturing process in India since last 3 years. OEM should have its own dedicated CCTV support center available during working hours, and also a fully equipped repair and maintenance office in India. Full disclosure should be made on this to ensure that the OEM can be contacted in case there are any requirements in future.
8. OEM must have an authorized Service Center in Odisha.
9. Authorization certificate to Bidder from the CCTV OEM.
10. The product datasheet of each item must be available on the OEM website for technical verification. Technical Specifications Compliance Certificate from CCTV OEM need to be submitted along with technical bids in OEM Letterhead.
11. OEM should not be banned by any organization in India.
12. Products quoted should support MII initiative.
13. All the cameras supplied must be compliant with 2002/95/RoHS and relevant certificate must be enclosed.
14. The Media Access Control (MAC) address of all the proposed equipment must be registered in the name of OEM only.
15. The bidder/agency shall ensure that all the OEMs equipment shall have 5 years of production and are not likely to be declared end of sale within 5 years from the date of supply. The bidder shall submit an undertaking from OEMs on letter head in

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his regard with their bid along with declaration regarding their authorized Service Centre in Odisha.

16. The bidder/agency shall ensure that all quoted product OEM or any of or its promoter(s) / director(s) should not have been blacklisted by any government department/PSU/Banks/Govt. agencies in India. Declaration from the letterhead of OEM shall be submitted by the agencies.

17. The bidder/agency shall ensure that all proposed CCTV Camera, Network Video Recorder (NVR) and Video Management Software (VMS) must be from same OEM.

18. OEM must have average annual turnover of Rs.100 Crore or more for the last 03 years in India. This is to justify the brand acceptance and Product availability of particular brand in Indian Market.

19. OEM need to confirm that the equipment, like Cameras etc., shall not be installed with standards like - GB28181, GB/T28181-2011, GB/T 28181-2011, GBT 28181- 2011, GBT28181- 2011, GB/T28181-2016, etc. protocols/standards and there shall be no option in the camera web page/settings to activate or deactivate such protocols/standards any of their version(s) or any such protocol which allow certain organizations to bypass all security parameters and look into the devices directly

20. The OEM for CCTV camera should have at least 200 or more employees in India. The Declared number of employee data must reflect and validate on EPF portal. This is to justify the OEM seriousness for Make in INDIA and creation of Jobs in Indian Market.,

21. For smooth and seamless after-sales service support, the Bidder must have to produce minimum 500 or more nos. of employees in his Payroll. The declared number of employees' data must reflect in EPF ECR (Electronic Challan cum Return) copy. The copy of ECR must be attached.

The Bidder must submit the Notarized Affidavit regarding the non-blacklisting of his/her Agency/Firm by any Government Department / Organization in Non-Judicial Stamp Paper of Rs. 100/-.

The tender papers will be opened as per schedule given above in Sadhabana Sabhagraha of Collectorate Kandhamal.

The Bidders or their Authorized Representatives have to remain present there with the sample of each item at the time of opening of the Financial Bid. Multiple samples will not be allowed for one item. Quality & Price of the products shall be assessed by the Committee members.

  
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The Bidder must have valid Aadhar Udyam Registration Certificate.

If the selected Agency supplies items of poor/ sub-standard quality contrary to the approved sample, the supply order will be outrightly cancelled. The EMD shall be forfeited and steps shall be taken for blacklisting the Bidder in addition to other legal actions. And non-compliance to any of the requirements or conditions mentioned above will lead to the disqualification of the bid.

The selected Bidder shall have to supply the items-alongwith warranty certificate to each of the enlisted Hostels- within 30 days of the receipt of the supply order.

Order will be placed after the tender process is over and quantity of article for supply order may change subject to availability of funds.

Payment will be made only after successful installation of supplied items.

## **Section II**

### **Schedule of Requirement**

Tentative requirement of CCTV Cameras to be supplied and installed in the SSD M&BCW Deptt Hostels in Kandhamal district will be as under:-

Sl. No.	Description	Requirement
1	IP-based CCTV Camera	As per assessment to be done by the authority.

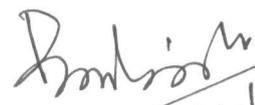
*P. Mohanta*  
24/2/2016  
District Welfare Officer,  
Kandhamal, Phulbani

### Section III

#### Instruction to Bidders

##### **General Information:**

- The office of the DWO, Kandhamal requires CCTV Cameras of reputed brands for its Hostels.
- Sealed tender is invited under two bid system from reputed Agencies / Firms / Suppliers of Odisha to supply, install & commission the CCTV Cameras. The Authority reserves the right to cancel / modify the Tender/Procurement Process without assigning any reason thereof. The Authority also reserves the right to reject any or all the Tender/Tenders without assigning any reason thereof.
- Bidders are required to submit the technical & financial bids separately. The bids in Sealed Cover-I containing 'Technical Bid' and Sealed Cover-II containing 'Financial Bid' should be placed in a Third Sealed Cover Super-Scribed "Bid for supply, installation & commissioning of CCTV Cameras in the SSD M&BCW Deptt Hostels in Kandhamal district" must reach the O/o-DWO Kandhamal as per the schedule above by Speed Post/ Regd. Post only.
- The proposal complete in all respect as specified above must be accompanied with a Non-refundable amount Rs. 5,000/- (Rupees Five thousand) only towards Tender paper Cost and EMD of Rs. 3,00,000/- (Rupees Three Lakhs only) in the form of Demand Draft in favour of **DWO, Kandhamal** drawn in any scheduled commercial bank and payable at Phulbani failing which the bid will be out rightly rejected.
- The authority will not be responsible for any postal delay. Bids without Tender paper Cost, EMD and the specified documents & certificates shall be rejected. Bids submitted after due date & time will be summarily rejected. EMD of unsuccessful bidders will be returned without interest after the award of Supply Order.
- Selection Process will be based on QCBS method as detailed in the next page.

  
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## Selection Process

Only those Bidders who meet the minimum eligibility criteria as per tender requirement shall qualify for evaluation of their Technical and Financial Bids. Evaluation of the Technical and Financial proposals will be based on Quality cum Cost Based Selection (QCBS) mode with weightage of 70% and 30% for Technical and Financial Proposals, respectively. The Bidder should take enough care to submit all the information sought by SSD M&BCW Deptt in the desired formats. The bids are liable to be rejected, if information is not provided in the desired formats, however SSD M&BCW Deptt reserves right to reject any bid without any clarification.

The evaluation of the proposal will be completed in 2 steps.

- Step-1 Technical Proposal
- Step-2 Financial Proposal

### **Step-1: Technical Proposal**

The interested agencies must submit the following with the technical proposal.

- Details of Agency.
- Details of similar executed projects as mentioned in technical eligibility criteria.
- Plan and methodology for the proposed assignment.

The Technical evaluation will include the evaluation of the Technical Proposal followed by Presentation, as specified below:

SN	Main Criteria and Weights out of Total 100 marks	Sub Criteria	Maximum Marks
1	Financial Strength - <b>20 Marks</b>	Turnover (average of last 3 financial years) Rs.10 Crore- 10 Marks	10
		Net Worth (up to 31 <sup>st</sup> March 2025 Rs. 10 Crore)- 2 Mark	10
		Net Worth (up to 31 <sup>st</sup> March 2025 Rs. 15 Crore) - 5 Mark	
		Net Worth (up to 31 <sup>st</sup> March 2025 Rs. 20 Crore or more ) - 10 Mark	

  
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SN	Main Criteria and Weights out of Total 100 marks	Sub Criteria	Maximum Marks
2	Institutional Strength - 25 Marks	Work order from any Govt. Organisation One No. of work order- 2 Mark Two No. of work order- 5 Mark Three No. Of work order- 10 Mark	10
		Total No. of Personnel in the Payroll of the Agency/Firm/ Supplier For 500 persons- 7 Marks For 750 Persons and above - 15 Marks	15
3	Similar experience for providing CCTV with Govt Department.	For a minimum contract value of Rs.20 lakhs - 5 Marks. For a minimum contract value of Rs.50 lakhs - 10 Marks. For a minimum contract value of Rs.1 Crore- 15 Marks	15
4	ISO Certification & CMMI	For each ISO certificate 1.5 mark each subject to ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013, and for CMMI-5-4 marks	10
5	Methodology including Management Plan & Presentation - 30 Marks	Appreciation of the project and presentation on the execution	30
<b>Total Technical Marks</b>			<b>100</b>

**Note:**

- i. The bidders with technical score of minimum 70% (i.e., 70 out of 100 marks) and above will be considered technically qualified for further process.
- ii. The eligible agencies may be called for a technical presentation of the concept plan submitted.
- iii. The price bids of technically qualified bidders will only be opened for financial evaluation.

**Step-2: Financial Proposal**

The financial bids of shortlisted Agencies/Firms scoring at least 70% marks in the technical proposal. While preparing the financial proposal, the agencies are expected to consider the requirements and conditions as per the bid document.

1. The financial proposal shall be quoted in lump sum amount (project cost including charges for the said work shall be submitted in the given format.
2. All taxes and surcharges as applicable shall be paid by the selected Agency. SSD M&BCW Deptt will only reimburse the GST as applicable. The financial proposal shall separately mention the GST amount.

  
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3. Final quote should be inclusive of out of pocket/ reimbursable expenses.

## 1. Bid Evaluation Process

**Quality and Cost Based Selection (QCBS)** method will be followed during the overall selection process. Based on the evaluation of technical proposal, Technical Score (**Ts**) will be awarded to each bidder in accordance with the marks obtained during the technical evaluation stage. There shall be **70% weightage** to technical score and **30% weightage** to financial score.

The individual bidder's financial score (**Fs**) will be evaluated as per the formula given below:

$$\mathbf{Fs} = \left[ \frac{\mathbf{Fm}}{\mathbf{Fb}} \right] \times 100 \text{ (rounded off to 2 decimal places)}$$

Where,

**Fs** = Financial score of the bidder

**Fm** = Minimum financial quote among the technically qualified bidders

**Fb** = Financial quote of the bidder under consideration

$$\mathbf{Combined\ Score\ (S)} = \mathbf{Tsx\ 0.7} + \mathbf{Fs\ x\ 0.3}$$

Where Ts = Technical Score secured by the bidder. Where Fs = Financial Score secured by the bidder. The bidder securing the highest evaluated **Combined Score(s)** will be declared as the preferred bidder.

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**Section IV**

**TECHNICAL BID**

**BIDDER'S INFORMATION IN BIDDER LETTER HEAD**

To

The District Welfare Officer,  
Kandhamal.

Sub: Supply & installation of CCTV Cameras to the SSD M&BCW Deptt Hostels in Kandhamal district [Technical Proposal]

Sir,

I, the undersigned, offer to participate in the tender process to Supply & installation of CCTV Cameras to the SSD M&BCW Deptt Hostels in Kandhamal district in accordance with your Tender Notice No: \_\_\_\_\_ Dated \_\_\_\_\_. I am hereby submitting my proposal, which includes Technical Proposal and Financial Proposal sealed in separate envelopes.

I hereby declare that all the information and statements provided in the technical proposal are true and correct and I accept that any misinterpretation contained in it may lead to disqualification of our proposal.

I, hereby unconditionally undertake to accept all the terms and conditions as stipulated in the tender document. In case any provision of this tender are found violated, then your office shall have the rights to reject my proposal including forfeiture of the earnest money deposit absolutely.

Yours faithfully,

**Authorized Signatory** [In full and initials]

Name and Designation:

Address of the Bidder:

*Dmlish*  
24/2/19  
District Welfare Officer,  
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Sl. No	Items	Details of the Particulars	Documents submitted at Page No.
1	Name & address of the Agency/Firm/Supplier ( Proof to be submitted )		
2	Details of Tender Paper Cost and Earnest Money Deposit: (Demand Draft Details)	DD No:-	
		Date:-	
		Amount (Rs.):-	
		Drawn on Bank:-	
		DD No:-	
		Date:-	
		Amount (Rs.):-	
		Drawn on Bank:-	
3	Name & address of the Proprietor (Self-attested copies of the Voter Id & Aadhar to be attached)		
4	Full Address of Authorized Service Centre in Kandhamal district ( Proof to be submitted )	Name of the In-Charge:-	
		Postal Address:	
		Telephone No.:	
		Mobile No.:	
		E-Mail Address:	
5	Name & telephone number of the Authorized Person signing the bid	Name and Designation:	
		Mobile Number:	
6	Bank Details of the Bidder (Proof to be submitted)	Name of the A/C Holder	
		Account Number:	
		Bank and Branch Name:	
		IFSC Code:	

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Sl. No	Items	Details of the Particulars	Documents submitted at Page No.
7	PAN No. (Attach self attested copy)		
	ITR for 2022-23		
	ITR for 2023-24		
	ITR for 2024-25		
8	GSTIN Certificate in favour of the Firm/Agency (Attach self attested copy)		
	GSTR 3B & GSTR1 for 1/2026		
	GSTR 3B & GSTR1 for 12/2025		
	GSTR 3B & GSTR1 for 11/2025		
9	TAN No:- (Attach self attested copy)		
10	Professional Tax for last 3 years (Attach self attested copies)		
11	Aadhar Udyam Registration Certificate details (Attach self attested copy)		
12	Details of the Valid Trade License		
13	ISO Certification details		

  
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Sl. No	Items	Details of the Particulars	Documents submitted at Page No.
14	Bidder Annual Turnover details for the last 03 years (Proof to be submitted)	2022-23	
		2023-24	
		2024-25	
15	Details of OEM Authorization		
16	Past Experience, if any, in Govt. Order supply		
17	OEM Annual Turnover details for the last 03 years (Proof to be submitted)	2022-23	
		2023-24	
		2024-25	
18	Details of the non-Blank listing Affidavit		
19	Data sheet of the Product offered.		
20	Acceptance to all the terms & Conditions of the tender ( an undertaking is to be given in Rs.10/- non-judicial stamp paper )		
21	Net worth of the Bidder as on 31-03-2025 (Certificate from the C.A to be enclosed with UDIN)		
22	Details of Specifications of Items		

**Seal & Signature of the Bidder**

*Phulbani*  
24/2/26  
District Welfare Officer,  
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**DETAILS OF SPECIFICATION OF ITEMS IN BIDDER'S LETTER HEAD**

**Name & Address of the Bidder:-**

Sl No	Name of the Item	Name of the Manufacturer & Model	Specifications
1	IP-based 2 mp Dome Camera		
2	IP-based 2 mp Bullet Camera		
3	1 TB HDD Storage		
4	19" to 22" MONITOR		
5	8 POE Switch (GIGA)		
6	NVR 8 CH		
7	CABLE @ 305 mtr per coil		
8	2 U RACK		
9	SERVER 32/1TB (HPE) WITH XION Processor		
10	Sony Monitor 55"		

**Seal & Signature of the Bidder**

*Dmlish*  
*24/2/16*  
**District Welfare Officer,  
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**Section V**

**FINANCIAL BID IN BIDDER'S LETTER HEAD**

**Name & Address of the Bidder:-**

Sl No	Name of the Item	Name of the Manufacturer & Model	Quoted Price per Unit	GST	Total Amount
1	IP-based 2 mp Dome Camera				
2	IP-based 2 mp Bullet Camera				
3	1 TB HDD Storage				
4	19" to 22" MONITOR				
5	8 POE Switch (GIGA)				
6	NVR 8 CH				
7	CABLE @ 305 mtr per coil				
8	2 U RACK				
9	SERVER 32/1TB (HPE) WITH XION Processor				
10	Sony Monitor 55"				
11	Installation				
12	AMC				

Note- Price preference given to MSME bidders as per MSME Guideline Govt. of Odisha those who are registered under NSIC.

**Seal & Signature of the Bidder**

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*24/2/20*  
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## ANNEXURE - A

## Camera Specifications

Camera ( Bullet & Dome )	
Image Sensor	1/2.7inchProgressiveScanCMOS
Max. Resolution	1920×1080
Min. Illumination	Color:0.005Lux@(F1.6,AGCON),B/W:0LuxwithIR
Shutter Time	1/3sto1/100,000s
Day & Night	IR cut filter
Angle Adjustment	Pan:0° to360° ,tilt:0° to75° ,rotate:0° to360°
Lens	
Lens Type	Fixedfocallens,2.8and4mmoptional
Focal Length & FOV	2.8mm,horizontalFOV111° ,verticalFOV59° ,diagonalFOV133° 4mm,horizontaFOV91° ,verticalFOV46° ,diagonalFOV109°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
DORI	
DORI	2.8mm,D:43m,O:17m,R:9m,l:5m 4mm,D:53m,O:21m,R: 11m,l:6m
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	Upto30m
Smart Supplement Light	Yes
IR Wavelength	850nm
Video	
Main Stream	50Hz:25fps(1920×1080,1280×720) 60Hz:30fps(1920×1080,1280×720)
Sub-Stream	50Hz:25fps(640×480,640×360) 60Hz:30fps(640×480,640×360)
Third Stream	50Hz:1fps(640×360) 60Hz:1fps(640×360)
	Mainstream:H.265/H.264,
Video Compression	Sub-stream:H.265/H.264/MJPEG Thirdstream:H.265/H.264
Video Bit Rate	32Kbpsto8Mbps
H.264Type	Baseline Profile, Main Profile, High Profile
H.265Type	Main Profile
Bit Rate Control	CBR,VBR
Region of Interest(ROI)	1fixedregionformainstreamandsub-stream
Audio	
Audio Type	Mono sound
Environment Noise Filtering	Yes
Audio Sampling Rate	8kHz/16kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC
Audio Bit Rate	64Kbps(G.711ulaw)/64Kbps(G.711alaw)/16Kbps(G.722.1)/16Kbps (G.726)/32to160Kbps(MP2L2)/16to64Kbps(AAC-LC)
Network	
Security	Password protection, complicated password, HTTPS encryption, watermark, digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF,RTSPoverHTTPS,TLS1.3
Simultaneous Live View	Upto 6 channels
API	ONVIF (ProfileS, ProfileT, ProfileM)

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**Annexure - B****NVR Specification**

Video and Audio	
IP video input	8-ch (Upto8MPresolution)
Incoming bandwidth	80Mbps
Outgoing bandwidth	80Mbps
HDMI output	1ch,4K(4096x2160)/30Hz,4K(3840x2160)/30Hz,2K(2560x1440)/60Hz,1920x1080/60Hz,1600x1200/60Hz,1280x1024/60Hz,1280x720/60Hz
VGA output	1ch,1920x1080/60Hz,1280x1024/60Hz,1280x720/60Hz
Video output mode	HDMI/VGA simultaneous output
CVBS output	N/A
Audio output	1-ch,RCA(Linear,1KΩ)
Two-way audio input	1-ch,RCA(2.0Vp-p,1KΩ,usingtheaudioinput)
Decoding	
Decoding format	H.265/H.264
Recording resolution	8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DC
Synchronous playback	8-ch
Capability	1-ch@8MP(30fps)/5-ch@1080p(30fps)
Stream type	Video, Video & Audio
Audio compression	G.711ulaw/G.711alaw/G.722/G.726
Network	
Remote connection	64
Network protocol	TCP/IP,DHCP,IPv4,IPv6,DNS,DDNS,NTP,RTSP,SMTP,SNMP,NFS,iSCSI,SISTP, UPnP™, HTTP,HTTPS
Network interface	1,RJ-4510/100/1000Mbps self- Adaptive eEthernet interface
Auxiliary Interface	
SATA	1SATA interface
Capacity	Upto8TB capacity for each disk
USB interface	Frontpanel:1xUSB2.0;Rearpanel:1xUSB2.0
General	
Power supply	12VDC,1.5A
Consumption(without HDD)	≤10W
Working temperature	-10°Cto55°C(14°Fto131°F)
Working humidity	10%to90%

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**Annexure - C****8-Port POE Switch Specification ( Giga )**

Standards & Protocols	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x
Indicators	10*Link/Act per device, Power, 1*Power per device
Interfaces	8*10/100/1000Mbps RJ45 Ports (Data/ PoE) 2*10/100/1000Mbps RJ45 Ports (Data) (Auto Negotiation/Auto MDI/MDIX)
Forwarding Mode	Store-forward
Switching	20Gbps
Throughput	14.9Mpps
Mac Address able	4K
PoE Supply	1-8 ports compatible with 802.3af/at standard PoE power supply 1245 positive, 3678 negative
Power Consumption	In full configuration: <100W PoE Power Supply: <95W
AC Input Voltage	220V~50/60Hz 1.4A
Dimensions(L×D×H)	175*127*43mm
Environment	Operating Temperature: 0°C-40°C Storage Temperature: -40°C-70°C Operating Humidity: 10%-90%RH, non-condensing Storage Humidity: 5%-90%RH, non-condensing
Standard & VLAN	Must support two modes of standard sharing and VLAN isolation, flexible and changeable, can adapt to complex networking environments, and save networking costs.
4 KV Lightning Protection	Must provide 4KV high-level lightning protection. PoE supports short-circuit and overload protection; power supply supports over-temperature protection and over-voltage protection.
Dual Port Giga bit Uplink	Must provide 2*10/100M/1000 Mbps link ports, which can be connected to NVR and router at the same time, local monitoring and cloud monitoring at the same time.
QoS Priority	Device 1-2 ports support QoS priority, when network congestion occurs, priority can be given to ensure stable and smooth transmission of important monitoring images.
Warranty	3 Years ( under all circumstances )

**Annexure - D**

Storage	Local Storage:- 1 TB surveillance HDD as per GoI guidelines. Brand- (Seagate / WD) with 3 years warranty
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**Annexure - E**

Monitor 19" or higher	Resolution: 1440x900 Hz, High Definition, HD Monitor: 4K, Screen Form: Flat, Display Type: LED, VGA & HDMI, Screen Size: 19 inches or higher.  Brand (HP, LG, Acer, EVM or Equivalent) with 3 years Warranty
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**Annexure - F**

<b>Cable</b>	
Description of Store	4 Pair Twisted Copper Cable Confirming to ISO/IEC 11801-1:2017 or latest
Application of Cable	Outdoor
Cable Category	CAT 6
Type of cable	Unshielded Twisted Pair cable (UTP)
Colour	Black

**CONDUCTOR**

Conductor Diameter with +/- 0.01mm Tolerance	0.57 mm
Conductor Material Type	Solid Annealed Bare Copper
Conductor Insulation Material	Polyethylene

**Jacket Material**

Outer Cable Diameter in mm	7.1-8
Sheath/ Jacket Material for Indoor Cable	Fire Redartant Polyvinyl chloride (FRPVC)
Inner sheath/ Jacket Material for Outdoor Cable	Fire Redartant Polyvinyl chloride (FRPVC)
Outer sheath/ Jacket Material for Outdoor Cable	Polyethylene

**PERFORMANCE**

Maximum Data Rate (in Gbps)	1
Operating temperature (in degree Celsius)	-20 deg.C to +60 deg. C

**Annexure - G**

<b>2U Rack</b>	
Type of Server Racks	Rack Enclosures
Size of Server Rack Enclosure	2U
Depth of the Rack (mm)	Upto 400
Mount Type	Wall mount
Front glass Door	Yes
Number of Fan For Heat dissipation (nos)	1
Material used for rear door	CRCA Steel
Both rear and front doors with Perforation	Yes
Cable channel in rear side for cable management	Yes
Secure Locks	Available
Support cable entry from top or bottom	Yes
Load Bearing Capacity (Kgs)	10 kilogram
PDU Power Strips	Available
Weight (Kg)	3 kilogram
Warranty	3 Years

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**Annexure - H**

Server (for CMS)	Server with (1x32GB) Dual Rank Intel Xeon E- 2414 2.6 GHZ- 4-core 55W FIO Processor.
	HPEML30 Gen10 Plus 350W HPE FIO Power Supply Kit.
	1 TB SATA 6G Business Critical 7.2 K hot Plug LFF RW Multi-Vendor HDD.
	HPE ProLiant ML 30 Gen11 4LFF Non- hot Plug Configure- to-order Server, 3 Years Warranty

**Annexure - I**

Monitor (for CMS)	Sony 55" FW-55EZ20L with 3 Years Warranty
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