



Bid Corrigendum

GEM/2026/B/7269665-C1

Following terms and conditions supersede all existing "Buyer added Bid Specific Terms and conditions" given in the previous corrigendum. Prospective bidders are advised to bid as per following Terms and Conditions:

Buyer Added Bid Specific Additional Terms and Conditions

1. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25% at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity ordered after the last date of original delivery order and in cases where option clause is exercised during the extended delivery period shall commence from the last date of extended delivery period. The additional delivery time shall be $(\text{Increase in Original quantity}) \times \text{Original delivery period (in days)}$, subject to minimum of 30 days. If the original delivery period is 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery period while exercising the option clause. Bidders must comply with these terms.
2. Bidders can also submit the EMD with Account Payee Demand Draft in favour of
DIRECTOR, SVNIRTAR
payable at
CUTTACK
.
Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer by the Bid End date / Bid Opening date.
3. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides as per GeM GTC). DD should be made in favour of
DIRECTOR, SVNIRTAR
payable at
CUTTACK
.
After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure submission of the original DD to the Buyer within 15 days of award of contract.
4. Buyer Added text based ATC clauses

SWAMI VIVEKANAND NATIONAL INSTITUTE OF REHABILITATION TRAINING AND RESEARCH

(Ministry of Social Justice & Empowerment, Govt. of India)

Department of Empowerment of Persons with Disabilities, (Divyangjan)

OLATPUR, P.O: BAIROI, DIST: CUTTACK (ODISHA) Pin: 754010.

Tel. No: 0671-2805552, 2805 778, FAX: 0671 2805862.

Ref-AD-5/BOQ/CCTV/Campus//25-26

Date-17.02.26

GEM BOQ BID DOCUMENT FOR PROCUREMENT OF CCTV

GENERAL INSTRUCTIONS AND TERMS & CONDITIONS OF TENDER DOCUMENT

Bidders can participate in GEM BOQ Bid in GEM site those are registered seller. All rules & regulations of bid are as per default conditions and procedure of GEM.

A. FOLLOWING DOCUMENTS TO BE UPLOADED.

SI	Name of documents
1	GST Certificate
2	Pan Card
3	Aadhar card
4	Latest quarter/month GST 3B receipt.
5	IT return for 24-25/25-26
6	Bidder turnover certificate mentioning UDIN Number of CA.
7	Experience certificate in GEM and in same type of item supply and installation in Govt Organization.
8	MSME certificate if any & MII certificate (mandatory).
9	Technical Bid details as per Annexure-I (mandatory)
10	Compliance Statement as per Annexure-II (mandatory)
11	Declaration as per Annexure-III (mandatory)
12	Technical documents as per annexure-IV (mandatory)
13	Bank Account details,
14	OEM authorization and STQC certificate of items as required. (mandatory)
15	Declaration/undertaking for warranty and CMC of product.

Director

Annexure-I (Technical bid details format).

Sl. No.	Information required	Information to be provided by the bidder
1	Name of the firm/ organization	
2	Whether the organization is proprietorship/ partnership/ Pvt. Ltd./ Ltd. Company	
3	Permanent and Local/present Address,	
4	Mobile No. & Whatsap No. and E-mail. Id of the proprietor/firm/contact person..	
4	If the head office other than in (3) above, then give the address for the same	

**Annexure
COMPLI
T) -MANI**

Name of Items	Required Specification	Whether complied to the required specification YES/NO	Write brand of items and model number of items to be supplied.
1	2	3	4
5 MP 30 mtr range CCTV Camera	IP based fixed lens night vision Bullet type. (Details spec given below)		
5 MP 50 mtr range CCTV Camera	IP based vari-focal night vision Bullet type. (Details spec given below)		
2 MP CCTV Camera : 30 metres range	IP based night vision Dome type. (Details spec given below)		

32 Channel NVR	with IP camera inputs and 4 channel SATA compatibility. (Details spec given below)		
HDD	10 TB Surveillance grade. (Details spec given below)		
4U rack	4U with all accessories. (Details spec given below)		
6U rack	6U with all accessories. (Details spec given below)		
32U standing rack	With all accessories. (Details spec given below)		
4 Port Giga POE switch	(Details spec given below)		
8 Port Giga POE switch	(Details spec given below)		
16 Port Giga POE switch	(Details spec given below)		
24 Port Gigabit Managed Switch with 4 SFP ports	(Details spec given below)		
CAT 6 UTP Cable box	305 mtr long box		
Outdoor UTP CAT 6 cable box	-do-		
OFC - 6 core SM Fibre optic armoured cable	(Details spec given below)		
OFC - 12 core LIU wall mount with adapter	-do-		
OFC - SC-SM Pigtail	-do-		
OFC - SC-SC SM duplex patch cord fibre (3 m)	-do-		
OFC - 100 Mbps SM Media converter	-do-		
PVC conduit/ casing pipe (3 m long) good quality,	As approved by Engineer-in-charge, including flexible pipes and piping accessories as required.		
UPS	800 VA Line interactive		

Annex
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Display unit (43" size)	(Dell, Samsung, Sony, LG or HP make)		
Optical mouse	Wireless		
HDMI cable	(as required)		
Other accessories including brackets, poles, electrification, monkey guards, CCTV camera management software, Cascading device, Central Control System etc.	As required for proper connectivity and functioning of the entire setup,		
Overall configuration & testing	For all the above supplied items so as to make them fully functional		

I/we having my/our office at do hereby declare that I/we have carefully read all the terms & conditions of GEM BOQ BID of the SVNIRTAR, Olatpur, Bairoi, Dist-Cuttack, Odisha-754010. I will abide by all terms and conditions set forth in the tender paper and GEM for the period of agreement.

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Signature of Bidder

ANNEXURE-IV (TECHNICAL DOCUMENTS)

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Bidders must submit the following documents (self-attested) along with Technical bid.

1. Valid copies of certifications for the offered products, including BIS (Bureau of Indian Standards), CE, FCC Part-15 Subpart-B, and IK10 (Vandal Resistance), IP Rating certification (minimum IP67) for outdoor equipment and ONVIF Profile S & G compliance certificates to ensure interoperability.
2. A valid MII Compliance Audit Certificate or a self-certification (as per the latest Public Procurement Order) affirming the local content percentage for all surveillance products.
3. An undertaking that all Active and Passive components are from the same Original Equipment Manufacturer (OEM) to ensure seamless integration and single-point service support.
4. Confirmation of a minimum 02 (Two) Years Comprehensive Warranty on all products from the date of installation.
5. A technical write-up or certificate clarifying whether the cameras and NVR are compatible for cascading to other existing departments and support a Unified Single Display interface for all integrated channels.
6. A detailed Compliance Sheet clearly mentioning the Make and Model of each item.
7. The bidder must attach the official OEM Datasheets. The specifications mentioned in the compliance sheet must be verifiable against the technical data published on the OEM's official website.
8. To ensure technical synergy and ease of maintenance, all Cables, Switches, Racks, and Transceiver Modules must be sourced from the same OEM. Clarification regarding the same must be submitted.
9. Bid-Specific OEM Authorization Certificate (MAF).
- 10.** An OEM Escalation Matrix providing clear contact points for technical and service support.

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Terms & Conditions

Ø **As per default terms & condition of GEM.**

Ø Materials will be delivered and installed at SVNIRTAR during working hours and only. If the consignee is changed, it will be informed by mail or clarification/ATC in 1

Ø If any items are not accepted, they may be replaced within seven days otherwise noted.

- Ø If the price of any items or total amount of order is more than our estimate value items may be rejected, or total bid may be cancelled.
- Ø Work will be treated as ok if it is accepted by the indenting department.
- Ø Installation/demonstration is the responsibility of supplier. No extra cost will be paid.
- Ø Warranty certificates must be submitted along with materials.
- Ø Supplier must attend the call for maintenance of any defect of equipment/material within warranty period.
- Ø Defects in equipment/materials must be replaced/repared within seven days and be ok.
- Ø Bidders may submit leaflets and details specification of materials to be supplied.
- Ø **MSME certificate will be accepted for exemption of EMD if bidder is the lowest bidder otherwise bidder will deposit EMD.**

3. General Terms and Conditions.

1. **Right to reject all bids**

The authority reserves the right to accept/reject and cancel any bid.

2. **Terms of delivery.** Delivery of materials and installation work will be done in time and within the knowledge of Engineer I/C.
3. **Scope of work:** - *Supply and installation of all items mentioned in the bill of materials and list as per required specification including all installation materials, commissioning of cable laying with PVC casing pipe to all cameras, etc. After installation it should be tested and demonstrated for successful working of all cameras.*

CCTV surveillance will be installed at campus (both outside road around and inside of the Institute building). Installation and view point will be decided by the Engineer-I/C. All work will be done in coordination and supervision of Engineer-I/C. Before installation of materials, it should be verified and certified by Engineer-I/c. Challan of all installation materials and installation report card must be submitted in stores department duly signed by Engineer-I/C. Work will be completed as per instruction of the Engineer-I/C.

4. **Minimum two years of warranty shall be assured by the selected vendor.**
5. Bidder must submit the OEM's declaration certificate regarding their genuineness of manufacturing setups and IPR for the CCTV Camera mentioning details about the manufacturer's contact if required.

2. Standard Terms and conditions

- a. **The Service Provider must quote by considering the location(s) and other factors necessary for successful completion of the supply, installation and service scope of work.**
- b. **The Service Provider is advised to see the site conditions and nature of work in person and to acquaint themselves with the site condition before submission of bid. No claim shall be entertained at a later date.**

- c. All tools, tackles, machines, plants and all other equipment's relevant to the work shall be provided by the bidder and cost with respect to the same shall be borne by bidder alone.
- d. The Labourers/Supervisor shall be arranged by the bidder at his cost for the work.
- e. The bidder has to transport his material/accessories, equipment's and other tools at his own cost.
- f. Bidder shall follow the safety rules of the buyer's organization.
- g. Bidder's personnel while working at the location shall follow all the safety precautions to prevent any accident. The bidder shall be fully responsible for any mishaps, loss, damage or injury to men during the working either to his men or to buyer's property. The bidder shall be responsible for recovery of appropriate amounts from his bill/security deposit to compensate the buyer.
- h. Work has to be completed within 45 days from the date of receipt of work order.
- i. Bidder must submit the following documents along with Technical Bid.
 1. Work Completion certificates on execution of CCTV works in central government Departments/PSUs organizations during last one year.
 2. Bid specific authorization from the manufactures of CCTV camera, NVR, switches.
- j. SVNIRTAR would award contract either for all the items or some of the items mentioned in Annexure-A. The requirements may be altered by SVNIRTAR, as and when required by the Institute in the situation.
- k. No residential accommodation can be provided to the service provider or his team during the execution of work.
- l. The service provider is responsible for due compliance of laws/norms relating to the execution of work. The entire risk and responsibility pertaining to this contract regarding safety & security of men, materials & machine shall rest on the service provider.
- m. The contract shall be covered by Contract Labour (Regulation and Abolition) Act 1947 and Contract Labour (Regulation & Abolition) Central Rule 1971 with all amendments.
- n. In case of breach of any laws, acts, rules mentioned above or any terms of contract, the contract shall be cancelled automatically.
- o. The service provider shall execute the contract through own work force. Sub-contracting shall not be allowed.
- p. Work will be executed as per instructions of Engineer-in-charge.
- q. Engineer-in-charge shall have the right to stop the execution of work at any stage if the quality of work is found inferior, if the progress of work slower or if the work is not in accordance with specifications/instructions of Engineer-in-charge.
- r. The service provider shall not cause any damage to the work, nor shall hinder or delay the progress of works. The cost of any damage done by the service provider to the existing infrastructure or other contractors works, shall be borne by the defaulter with addition of 10% as decided by the Director, SVNIRTAR.
- s. Execution work and installation of fittings etc. (as per work order) is the entire responsibility of the contractor.
- t. Payment shall be released approximately within 30 days after satisfactory execution of work as per terms of contract and submission of bill. Taxes/ duties, as applicable, shall be borne by the contractor.
- u. The service provider shall provide warranty of 2 years from the date of completion of work as per company's warranty. In case of any defect found during the warranty period, the service provider shall promptly rectify the defects at site within 7 days of verbal/ written notification per instructions of the Engineer-in-charge.
- v. In case the service provider commits any breach of contract, the Institute may terminate the contract in written summarily without compensation to the service provider for any reason.
- w. **Bidder must be the local area within 50 kms from the Institute for provision of services as and when required.**
- x. The bidder should not have been blacklisted by any organization.

- y. **Technical compliance form for the technical specification of items with must be filled up properly without any ambiguity failing which the tender is rejected. The bidder has to furnish one make & one model of main/m: ra, NVR, Switch) looking into the compatibility of the system. The bid is quoting more than one make/model of these items.**

BOQ OF CCTV FOR MAIN CAMPUS (OUTDOOR & INDOOR) :

Sl. No.	Description	Qty.	Unit
1	5 MP IP based fixed lens night vision Bullet type CCTV Camera : 30 metres range	25	nos
2	5 MP IP based vari-focal night vision Bullet type CCTV Camera : 50 metres range	7	nos.
3	2 MP IP based night vision Dome type CCTV Camera : 30 metres range	24	nos
4	32 Channel NVR with IP camera inputs and 4 channel SATA compatibility	2	nos
5	10 TB Surveillance grade HDD	5	nos
6	4U rack with all accessories	11	nos
7	6U rack with all accessories	2	no.
8	32U standing rack with all accessories	1	no.
9	4 Port Giga POE switch	11	nos
10	8 Port Giga POE switch	4	nos.
11	16 Port Giga POE switch	2	no.
12	24 Port Gigabit Managed Switch with 4 SFP ports	1	no.
13	CAT 6 UTP Cable box of 305 m	6	nos.
14	Outdoor UTP CAT 6 cable box of 305 m	3	nos.
15	OFC - 6 core SM fiber optic armoured cable	800	m
16	OFC - 12 core LIU wall mount with adapter	7	nos.
17	OFC - SC-SM Pigtail	72	nos.
18	OFC - SC-SC SM duplex patch cord fiber (3 m)	15	nos.
19	OFC - 100 Mbps SM Media converter	7	nos.
20	PVC conduit/ casing pipe (3 m long) of good quality, as approved by Engineer-in-charge, including flexible pipes and piping accessories as required.	1000	nos.
21	800 VA Line interactive UPS	8	nos

22	Display unit (43" size) (Dell, Samsung, Sony, LG or HP make)	1	no.
23	Wireless optical mouse	2	nos
24	HDMI cable (as required)	2	nos
25	Other accessories as required for proper connectivity and functioning of the entire setup, including brackets, poles, electrification, monkey guards, CCTV camera management software, Cascading device, Central Control System etc.	1	job
26	Overall configuration & testing of all the above supplied items so as to make them fully functional	1	job

DETAILED SPECIFICATIONS OF ITEMS MENTIONED IN THE BOQ:

Sl.	Item	Specifications	
1	2 MP IP based fixed full colour view with night vision Dome type CCTV Camera of 30 meters range (of STQC certified brands only)	Image Sensor	2 MP Dome camera 1/2.8" Progressive Scan, CMC
		Supported resolutions	1920 x 1080, 720p, D1,(VGA)
		Video Compression	H.264, H.265, MJPEG or Higher
		Video Standard	PAL/NTSC
		Number of Streaming profiles supported	Profile 1: 1920x1080p(2MP) @ 30fps Profile 2: 1080p/720p/D1/2CIF/CIF @ 30fps Profile 3: 1080p/720p/D1/2CIF/CIF @ 15fps(H.264/H.265) Profile 4: 720p/D1/2CIF/CIF @ 30fps(H.264/H.265)
		Bitrate	128kbps-8Mbps or Better
		Adaptive streaming	Should Support
		Unicasting/ Multicasting	Support of Unicasting and Multicasting as provided
		Shutter speed	1/15s-1/100000s or Better
		Minimum Illumination	Colour - 0.01 Lux @(F1.2 AGC) Black & white - 0 Lux or Better
		Signal to Noise Ratio (SNR)	70dB or better

Lens focal length	3.6mm Lens HFOV - 87.5°, VFOV - 04.9°
Built In IR irradiance upto	Min 30mtrs
Day/Night Camera Switching	Should Support
Network Failure recording	In case of Network failure, the recording on NAS or SD Card.
Edge Storage	512 GB Onboard storage or better
Network Connectivity	10Base-T/100BaseTX Ethernet
Supported Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS, RTP, RTCP, RTSP, PPPoE, TLS/SSL, SFTP, ICMP, IGMP, IPv4, IPv6, QoS Layer 3, Bonjour
Data Encryption	All data, including sensitive content, should be encrypted with AES and RSA
IP Address Filtering	Should Support
HTTPs Streaming	Should Support
Edge Data Encryption	Should Support
Network Authentication	802.1x Network authentication
Video Content Analytics (VCA)	Detection: Motion Detection, Trip/No Trip Detection, Obstruction, IP Conflict, Network Intrusion, Alarm In Alert: IP conflict, Network disconnection, time triggered, Manual Trigger
Back light Compensation (BLC)	Should Support
Wide Dynamic Range	120 dB or Better
Image Enhancement	Saturation, Contrast, Sharpness, Exposure, White balance & better
Noise Reduction	3 DNR
Power	POE (802.3af/at), 12 V 2A or better
Operating Temperature	~30°C- +60°C or better
Operating Humidity	95% or less
Ingress Protection	IP67
Impact protection	IK10
MAC Address	The MAC address of the camera should be unique and in the name of the OEM, and in India.

		ONVIF Compliance	S,G & T, The IP Camera make ear on the ONVIF Conformant
		Regulatory Approvals/ Certifications To be attach	FCC, BIS, CE, RoHs, NDAA, N y Certified by STQC to meet ment issued by MeitY.
		IP camera & NVR	Should be same Make
		Plug and Play	The IPCAM shall get connecte R/VMS when plugged in the nom NVR or VMS
2	5 MP IP based fixed full colour view with night vision Bullet type CCTV Camera of 30 meters. (of STQC certified brands only)	Image Sensor	5 MP Dome camera 1/2.8" Progressive Scan, CMC
		Supported resolutions	2592 X 1944,2592 X 1520,2080,720p,D1,2CIF,CIF,VGA
		Video Compression	H.264, H.265, MJPEG or Higher
		Video Standard	PAL/NTSC
		Number of Streaming profiles supported	Profile 1: Mainstream - 2592* H.264) Profile 2: Substream - D1@30 Profile 3: MJPEG - 2048*1536 VGA@15fps(H.264/H.265) Profile 4:1920*1080@30fps (I
		Bitrate	128kbps-16Mbps or Better
		Adaptive streaming	Should Support
		Unicasting/ Multicasting	Support of Unicasting and provided
		Shutter speed	1/15s-1/100000s or Better
		Minimum Illumination	Colour - 0.01 Lux @(F1.2 AGC Black & white - 0 Lux or Better
		Signal to Noise Ratio (SNR)	70dB or better
		Lens focal length	4.0mm Lens HFOV* - 87.6°, V 104.5°
		Built In IR irradiance up to	Min 30mtrs
		Day/Night Camera Switching	Should Support
		Network Failure recording	In case of Network failure, the recording on NAS or SD Card.
		Edge Storage	512 GB Onboard storage or better
		Network Connectivity	10Base-T/100BaseTX Ethernet

Supported Network Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS, RTP, RTCP, RTSP, PPPOE, FTP, TLS/SSL, SFTP, ICMP, IGMP, IPv4, IPv6, QoS Layer 3, DNS, Bonjour
Data Encryption	All data, including sensitive content, should be encrypted with AES and RSA
IP Address Filtering	Should Support
HTTPs Streaming	Should Support
Edge Data Encryption	Should Support
Network Authentication	802.1x Network authentication
Video Content Analytics (VCA)	Detection: Motion Detection, Trip/No Trip Detection, Obstruction, Intrusion, IP Conflict, Network Flood, Alarm In Alert: IP conflict, Network disconnection, time triggered, Manual Trigger
Back light Compensation (BLC)	Should Support
Wide Dynamic Range	120 dB or Better
Image Enhancement	Saturation, Contrast, Sharpness, Exposure, Gamma, White balance
Noise Reduction	3 DNR
Power	POE (802.3af/at), 12 V 2A or more
Operating Temperature	~30°C- +60°C or better
Operating Humidity	95% or less
Ingress Protection	IP67
Impact protection	IK10
MAC Address	The MAC address of the camera should be unique and in the name of the OEM, and in India.
ONVIF Compliance	S, G & T, The IP Camera maker should be ONVIF Conformance Certified
Regulatory Approvals/ Certifications To be attach	FCC, BIS, CE, RoHs, NDAA, NISAP, and should be Certified by STQC to meet the requirements issued by MeitY
IP camera & NVR	Should be same Make
Plug and Play	The IPCAM shall get connected to NVR/VMS when plugged in the network from NVR or VMS

3	5 MP IP based varifocal full colour view with night vision Bullet type CCTV Camera of 50 meters . (of STQC certified brands only)	<p>Image Sensor</p> <p>Supported resolutions</p> <p>Video Compression</p> <p>Video Standard</p> <p>Number of Streaming profiles supported</p> <p>Bitrate</p> <p>Adaptive streaming</p> <p>Unicasting/ Multicasting</p> <p>Shutter speed</p> <p>Minimum Illumination</p> <p>Signal to Noise Ratio (SNR)</p> <p>Lens focal length</p> <p>Built In IR irradiance up to</p> <p>Day/Night Camera Switching</p> <p>Network Failure recording</p> <p>Edge Storage</p> <p>Network Connectivity</p> <p>Supported Network Protocols</p> <p>Data Encryption</p> <p>IP Address Filtering</p> <p>HTTPs Streaming</p>	<p>5 MP Dome camera 1/2.8" Progressive Scan, CMC</p> <p>2592 X 1944,2592 X 1520,2080,720p, D1,2CIF, CIF, VGA</p> <p>H.264, H.265, MJPEG or Higher</p> <p>PAL/NTSC</p> <p>Profile 1: Mainstream - 2592*H.264) Profile 2: Substream - D1@30 Profile 3: MJPEG - 2048*1536 VGA@15fps(H.264/H.265) Profile 4:1920*1080@30fps (I</p> <p>128kbps-16Mbps or Better</p> <p>Should Support</p> <p>Support of Unicasting and provided</p> <p>1/15s-1/100000s or Better</p> <p>Colour - 0.01 Lux @(F1.2 AGC Black & white - 0 Lux or Better</p> <p>70dB or better</p> <p>2.8mm - 12mm Lens, Manual FOV* - 87.6°, VFOV*- 46.4°, D</p> <p>Min 50mtrs</p> <p>Should Support</p> <p>In case of Network failure, the recording on NAS or SD Card, back when the network connection R)</p> <p>512 GB Onboard storage or better</p> <p>10Base-T/100BaseTX Ethernet</p> <p>TCP/IP, UDP, HTTP, HTTPS, DHCP, DNS, RTP, RTCP, RTSP, PPPOE, TP, TLS/SSL, SFTP, ICMP, IGMP, x, IPv4, IPv6, QoS Layer 3, DNS Bonjour</p> <p>All data, including sensitive channels AES and RSA</p> <p>Should Support</p> <p>Should Support</p>
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Edge Data Encryption	Should Support
Network Authentication	802.1x Network authenticatic
Video Content Analytics (VCA)	Detection: Motion Detection, on, Trip/No Trip Detection, Obntrusion IP Conflict, Network ull, Alarm In Alert: IP conflict, Network dis time triggered, Manual Trigge
Back light Compensation (BLC)	Should Support
Wide Dynamic Range	120 dB or Better
Image Enhancement	Saturation, Contrast, Sharpn Exposure, Gamma , White be og
Noise Reduction	2 DNR, 3 DNR
Power	POE (802.3af/at), 12 V 2A or f
Operating Temperature	~30°C- +60°C or better
Operating Humidity	95% or less
Ingress Protection	IP67
Impact protection	IK10
MAC Address	The MAC address of the came in the name of the OEM, and in India.
ONVIF Compliance	S,G & T, The IP Camera make ear on the ONVIF Conformant
Regulatory Approvals/ Certifications To be attach	FCC, BIS, CE , RoHs,NDAA,NE Certified by STQC to meet th nt issued by MeitY
IP camera & NVR	Should be same Make
Plug and Play	The IPCAM shall get connecte R/VMS when plugged in the n g from NVR or VMS
SYSTEM	
Control Mode	Desktop Client, Mobile Client, ough HDMI)
OS	Embedded Linux
Processor	ARM cortex- Quad Core
VIDEO AND AUDIO	
Video-Input	32 IP channels

4

32 channel NVR with 4 SATA Slots

Video Output	HDMI (2.0) - 1 Port (Main)
Video Compression	H.265/H.264/ Motion JPEG
Audio input	1 Channel, RCA Port
Audio Output	1 Channel, RCA Port
Audio Compression	G.711u
Two-way Audio	Required
DISPLAY	
Recording Resolution	12MP, 8MP, 5MP, 4MP, 3MP, 2
Decoding Resolution (on local display)	Up to 4K
Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+ ©+12, 1+9, 4+9,2+12, 5x5, tial
Digital Zoom	Both Live view and Playback
OSD	Channel Number, Name, Bitrate
Snapshot Format	JPEG
Recording type	Continuous, Scheduled, Manual
Bandwidth Optimization	Yes
PLAYBACK AND BACKUP	
Synchronous Playback	4 channels @ 1080P (via Desktops @ 1080P (via HDMI)
Search Mode	Date & Time, Camera, Record Drive
Playback Modes	Fast Forward, Slow Forward, Reverse at Different Speed Control
Backup	Manual Backup & Scheduled
Configuration Backup	Required
Remote Operations	Monitor, PTZ Control, Playback Download, Log Information,
VIDEO DETECTION AND ALARMS	
Camera events	Motion Detection, Recording Camera offline, Camera online
System events	Manual Trigger, On Boot Alarm Volume Full, Disk Fault, Scheduler

Actions	Recording on Selected Chanr FTP/Email server, Email Snapshot, TCP Notification, R ion, Turn On/Off Alarm Outpu n, SMS Notification
DEVICE STATUS	
Camera status, Manual recording, S cheduled recording, Alarm recordin g, Adaptive recording	Required
FPS and GOP count	Required
Motion detection, View tampering, T ripwire, Object intrusion, Missing Ob ject, Suspicious Object, Loitering De tection, Audio Exception, Object Cou nting	Required
CPU usage display	Required
CPU temperature display	Required
Thermal shutdown	Required
STORAGE	
SATA Interface	4 SATA III (18TB per port)
NAS	2 NAS (CIFS, NFS)
RAID	RAID-0, RAID-1, RAID-5, RAID
Recording Retention	Camera-wise, HDD usage % v
NETWORK	
Incoming Bandwidth	512 Mbps
Outgoing Bandwidth	512 Mbps
Maximum User	128 Programmable
Simultaneous login	9
Network Protocols	TCP/IP, DHCP, PPPOE, DNS, D TP, RTP/RTSP, CIFS/NFS
INTERFACES	
Audio Input	1 Channel, RCA Port (1V RMS
Audio Output	1 Channel, RCA Port (0.5V RM
Alarm Input	2 Ports (Max. load resistance:
Alarm Output	1 Port (Max load power: <50\ <1A)
Network Interface	2 Ports x Ethernet (RJ-45) 10/

USB	3 ports (2 x USB 2.0, 1x USB .
Number of SATA Interface	4 Ports (SATA III)
HDD size	18 TB HDD support (with 6Gb
HDMI	HDMI (2.0) - 1 Port (Main)
Reset Switch (Network, User account, and General settings)	Required
Buzzer	Required
CERTIFICATION	
Regulatory Approvals/ Certifications	FCC (FCC Part 15 Subpart B C E, EN/IEC
ELECTRICAL AND MECHANICAL	
Operating temperature	0°C to +50°C (32°F to 122°F)
Humidity range	5% to 95% RH Non-Condensit
Chassis	19" inch Rack mount
Power input	SMPS (100-240-volt AC)
Power consumption (without Hard disk)	≤60W

5	CAMERA MANEGEMENT SOFTWARE	SOFTWARE SPECIFICATIONS:
		It should be possible to configure, playback & live streaming of cameras on the main NVR without the need of any server/workstation.
		The system should be capable of integrating with IP cameras of any brand 2.0 & above or ONVIF S profile.
		It should be possible to define a different number of retention days for individual cameras.
		NVR should have a configuration wizard for quick configurations.
		NVR should show the estimated number of storage days.
		The device must be capable of taking Snapshot with integrated Access control system of the same brand in case of user allow/denied events.
		Digital Zoom during live view.
		The system should be able to take a Snapshot during live view/ playback.
		The Device Must Provide Configuration Backup.
		It Should Have its Own Free DNS Server.
		Video pop-up for both Desktop and Local clients.
		3 User Access Levels (Default): Admin, Viewer, and Operator
		10,000 Events Log
		NVR Should Be Capable of Exporting Files in Native and AVI File Format to PC.
NVR should have IP Address Filtering to Enhance Security.		

		System Admin Should Be Capable of Programming PTZ Tour.
		Dual Stream Option Should Be Available for Simultaneous Recording and on The Network Depending on The Bandwidth.
		The system should support Daylight Saving Time (DST).
		The Device Should Be Designed, Developed, and Manufactured in India.
		MOBILE CLIENT:
		Mobile application should be provided by the Vendor free of cost with the
		It should be possible to see the playback from a mobile client.
		The Mobile client should Have 4 x 4 Layout for Display cameras.
		The Mobile client should Have Digital Zoom functionality.
		The Mobile client should Be Able to Control PTZ Cameras.
		The Mobile client Software Should Support Up To 50 NVRs.
		Software Should Have Feature to Configure Camera as Favorite Channels.
		Mobile Viewer Application Should Function on Android and IOS Based Phoi
		Mobile Viewer Application Should Support Calling from Mobile App Feature er Can be Added Per Camera in the Device and The User Can Directly Cal y just One Click on Camera View from Mobile(without any SIM card in NVR
6	CASCADING DEVICE	If, Possible compatible with NVR for cascading to other Department, Singl
7	24 port Gigabit Managed Switch	Layer-2 Fully Managed Stackable Switch having 24x 10/100/1000BaseT ports & 4x 10G SFP+ slots
		Should have RJ-45 console ports for out - of - band CLI management & Gi P based out-of-band remote management
		One USB 2.0 Port for easy management for images and configuration file and from the NVRAM of the Switch
		Switching Capacity should be at least 168 Gbps
		Packet Forwarding Rate should be at least 125 Mpps for 64-byte packet si
		The switch should have non-blocking architecture & wire-speed perform condition from day one
		The switch should have smart fans (min. 2nos.) with sensor IC that provi based on different temperature.
		The switch should have support for physical stacking with at least 6 units
		The switch should have support for virtual stacking with at least 25 units
		The Switch should have support for redundant power supply.
		Secure Product Development Lifecycle Process Requirement Certification 62443-4-1: 2018 standard. Certificate must be submitted along with the use for rejection of bid.
		The Switch should have following L2 features from day one
		1. MAC Address Table size: At least 16000
		2. Flow Control: IEEE 802.3x in full duplex, HoL blocking prevention

3. Jumbo Frame Support (At least 9K bytes)
4. IGMP v1 v2 v3 snooping with at least 1024 IGMP snooping groups, Per GMP snooping fast leave
5. MLD v1 v2 snooping with at least 1024 MLD snooping groups, Per VLAN snooping fast leave
6. IEEE802.1D STP, 802.1w RSTP, 802.1s MSTP with at least 16 MSTP instances. G.8032 ERPS features.
7. The switch should be able to avoid the loop occurring in a single port connected switch/hub by shutting down the corresponding port or corresponding
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with at least 8 ports per switch.
9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Managed mirroring.
10. IEEE 802.1Q VLAN, at least 4000 Static VLANs, 4000 Dynamic VLANs, Asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN (n-Q)
The switch should have 802.1p support with 8 queues per port. Support scheduling technique. trTCM, srTCM.
The switch should support CoS based on VLAN, IP address, MAC address, Member, 802.1p priority queues, protocol type, IPv6 traffic class.
The switch should have Port-based ingress & egress bandwidth control with a granularity of at least 8Kbps. Flow-based ingress & egress bandwidth control with a granularity of at least 8Kbps
The switch should have support for standard & extended Access control Lists. 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, IP Time based ACL.
The switch should have the following security features from day one: SSH, Denial of Service (DoS) prevention, Broadcast/Multicast & Unicast storm control, port security features with at least 16 user segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, database failover, DHCP server screening, DAI (Dynamic ARP Inspection), Denial of Service (DoS) attack prevention, Binding of IP address & MAC address with physical address; MAC based Access Control, Dynamic VLAN assignment, Guest Access Control. At least four level of user account control.
The switch should have feature to protect the CPU from protocol control plane
The switch should have feature of at least 512 static routes, default route, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbour Discovery, Policy based route from first day
The Switch should have following Management features from day one: Web Management (Web), CLI, Telnet Server (IPv4 & IPv6), TFTP Client (IPv4 & IPv6), SFTP server, IPv4v2cv3, SNMP trap, BOOTP/DHCP Client, SNTP, NTP, debug command, RMON, ICMPv6, DHCP server (IPv4 & IPv6), DHCP Relay Option 60,61,62,125, LLD management support, sflow, trusted host, Physical console port for Out of band management, 3ah Ethernet Link OAM, IEEE 802.1ag, ITU-T Y.1731.
OEM offered must be in steady and profitable business in India at-least for 5 financial years (FY 2019-20 to 2024-25). Bidder shall have to submit audited financial statement of their claim.
OEM should have valid ISO 9001 & ISO 14001 & ISO 45001 for design & development products. ISO 14064-1: 2006. Documents need to be submitted along

		OEM should have Average Annual Financial Turnover not less than 500 Cr n India for the last five financial years for data networking products.
		OEM should have Secure Product Development Lifecycle Process Requirement accordance with IEC 62443-4-1: 2018 standard. Certificate must be submitted otherwise it may cause for rejection of bid.
		All the Switches and transceiver modules should be from same OEM
8	16 Port Gigabit unmanaged POE switch	(i) 16 nos. 10/100/1000 Mbps Gigabit PoE ports supporting 802.3af/at (ii) 2 nos. SFP ports (iii) 150 watts available PoE (iv) Working modes: Extend, VLAN, QoS, PoE (v) Maximum distance of 250m (vi) Operating Temperature: 0 to 40 deg C (vii) Lightning/ Surge protection: 6 KV (viii) Plug and play installation
9	8 Port Gigabit unmanaged POE switch	(i) 8 nos. 10/100/1000 Mbps Gigabit PoE ports supporting 802.3af/at (ii) 2 nos. 10/100/1000 Mbps uplink ports (iii) 120 watts available PoE (iv) Working modes: Extend, VLAN, QoS, PoE (v) Maximum distance of 250m (vi) Operating Temperature: 0 to 40 deg C (vii) Lightning/ Surge protection: 6 KV (viii) Plug and play installation
10	4 Port Gigabit unmanaged POE switch	(i) 4 nos. 10/100/1000 Mbps Gigabit PoE ports supporting 802.3af/at (ii) 2 nos. 10/100/1000 Mbps Ethernet/ SFP uplink ports (iii) 60 watts available PoE (iv) Working modes: Extend, VLAN, QoS, PoE (v) Maximum distance of 250m (vi) Operating Temperature: 0 to 40 deg C (vii) Lightning/ Surge protection: 6 KV (viii) Plug and play installation
11	4U rack	4U rack with all accessories
12	6U rack	6U rack with all accessories
13	32U rack	32U standing rack with all accessories
14	INDOOR CABLE	Indoor UTP CAT 6 cable box of 305 m
15	OUTDOOR Cable	Outdoor UTP CAT 6 cable box of 305 m

16	6 Core Fiber Optic Cable	6 Core Single Mode Outdoor Armoured Fiber Optic Cable. Electro Chromi Steel Tape (ECCS). Central loose tube with jelly compound. Sequential me hould fulfil the requirement of IEC 60793-1/60794-1-2, ISO 11801, ITU-T R f HDPE Jacket: 1.8±0.2mm. Bend Radius: Short Term (20D). Pulling Tensi). The fiber is optimized for operation at 1310 nm and at 1550 nm. Nomin 9.2 µm. Cladding Diameter: 125 µm. Cable Cut-off Wavelength: 1260nm.
17	Work of OFC cable.	Digging of Hard/ Soft soli up to a depth of 2.5ft and width of 1 ft . Then fil ncluding road cutting, if and as required. Tench work including laying of H e it. All other works, as necessary for the same to be taken up without ar ections of the Engineer-in-charge.

EMD AND SD DD AND E-PBG WILL BE SUBMITTED FROM THE SBI AS MENTIONED IN THE BID. EMAIL ADDRESS R OF THE BRANCH MANAGER OF ISSUING BANK AND HEAD OFFICE MUST BE MENTIONED IN THE BG IF SUBMI

IF REQUIRED PRE-BID MEETING WILL BE CALLED AT SVNIRTAR TO ATTEND PHYSICALLY.

5. Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modificat specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer req and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bid notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum iss regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exe sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attache](#) allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifyr Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experienc
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case m
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid ter in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, u

by GeM GTC.

16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional to other document. If buyer needs more items along with the main item, the same must be added through bunch items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this representation against the same by using the Representation window provided in the bid details field in Seller dashboard within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not if he fails to reply to such representations.

*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

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