



लोकप्रिय गोपीनाथ बरदलै क्षेत्रीय मानसिक स्वास्थ्य संस्थान

तेजपुर: असम: पिन: 784001

LGB REGIONAL INSTITUTE OF MENTAL HEALTH

(An Autonomous body under Ministry of Health and Family Welfare, Govt. of India)

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TEZPUR:: 784001 :: ASSAM

LGB/NAZ/1456/2022/8185

Date: 7<sup>th</sup> November, 2022

**NOTICE INVITING QUOTATION**

Sealed Quotations are invited for Supply, Installation, Testing and Commissioning of CCTV Camera at LGBRIMH, Tezpur as per the scope of work and on the terms and conditions mentioned in the enclosed document.

The technical and financial quotations should be submitted in the separate sealed envelopes. No quotations would be accepted by e-mail and only hard copies will be considered. Subject line and Tender Reference should be written on the Top of the envelope.

The quotations may be submitted to the Office of the undersigned within 7 days from the date of issue of notification addressed to the Director, LGBRIMH, Tezpur, Sonitpur, Assam 784001. The rate should be quoted both in figure and words. Any corrections made should be authenticated. Use of whitener is strictly unacceptable. The quotation should be submitted in the sealed cover super scribed "Supply, Installation, Testing and Commissioning of CCTV Camera at LGBRIMH, Tezpur" and addressed to: - The Director, LGBRIMH, Tezpur, Sonitpur, Assam-784001. Institute reserves the right to reject any or all the bids without assigning any reason thereof.

Sealed Quotations should reach on or before 7 days from the date of publication of the quotation.

Director  
LGBRIMH, Tezpur

### **A. Technical Quotation:**

The following documents have to be provided along with the technical quotation:

- i. Provide Profile of Firm/Company along with the Year of establishment. Declaration by the proprietor of the firm, in case, the firm is proprietorship *on non –judicial stamp paper of worth Rs. 100.00 – duly attested by Notary Public*. In case of partnership firm, a scanned copy of partnership deed duly registered by the Register of Firms. Incorporation certificate in case of company should be submitted.
- ii. EMD of Rs. 7000.00 in the form of DD/FDR/BG in the favor of Director, LGBRIMH, Tezpur payable at Tezpur, Sonitpur, Assam or proof of EMD exemption should be submitted.
- iii. Annual turnover of the bidder for the last 3 Years from Chartered Accountants should be submitted.
- iv. Names & addresses of similar projects in Govt/ Semi-govt./Govt. Autonomous academic institution along with the telephone numbers of the contact persons of the clients to whom similar services provided by your company. Documentary evidence to be provided for the same.
- v. Recent non-conviction/ non-blacklisting certificate *on non –judicial stamp paper of worth Rs. 100.00 – duly attested by Notary Public* (As per annexure II) should be submitted.
- vi. Updated Income Tax return documents should be submitted.
- vii. PAN Card and GST registration certificate should be submitted.
- viii. Valid Trade License or Incorporation certificate should be submitted.
- ix. Duly filled annexure I, III, IV and V should be submitted.
- x. Vendor should be OEM or Authorized Business Partner of the product quoted as per details in the Technical quotation. Attach the relevant and valid document of OEM in support of authorization.

### **B. General Terms & Conditions:**

- i. Technical and Financial quotation should be submitted on company letter head and should be submitted duly signed by the authorized person.
- ii. The payment will be made after the successful supply, installation, testing and commissioning of the product quoted and on receipt of bill for the same.
- iii. This contract shall be valid for a period of initially one year which could be extended on mutually agreed terms after completion of satisfactory services for next period. Institute reserves the right to terminate the contract by giving one month notice in writing without assigning any reason whatsoever.

- iv. The quoted price shall be valid for at least 1 year. Institute will not entertain any request in respect of escalation of price due to any reason whatsoever.
- v. Financial quotation of only those firms will be opened, whose Technical Quotations are eligible after Technical evaluation.
- vi. Sub-letting/Sub-contract of project and services is not allowed.
- vii. LGBRIMH, Tezpur reserves the right to accept or reject any or all the quotations without assigning any reason whatsoever.
- viii. In case of any dispute the same shall be mitigated as per provision of the tender and territorial jurisdiction shall be within the limit of the Tezpur District Court.
- ix. 99% uptime should have to be maintained during the contract period. If the breakdown is not attended within 12 hours of call then 0.5% of total contract value per day delay will be deducted.
- x. The L1 bidder will be evaluated based on the total price of all items.
- xi. The bidder should quote all items. If the bidder quote for partial items then the bid is liable to be cancelled.

### **C. EMD/ PERFORMANCE SECURITY**

- a) Bidder should submit EMD of Rs. 7000.00 in the form of DD/FDR drawn in favor of Director, LGBRIMH, Tezpur, Assam, payable at Tezpur, Sonitpur, Assam failing which the tender shall not be considered for acceptance and will be summarily rejected. Cash, cheque or any other mode of payment will not be accepted at all. The EMD deposited against previous tender cannot be adjusted or considered for this tender. No interest will be payable on the EMD security. The EMD of the approved bidder will be released only after the concerned firm deposits necessary performance security. **The DD/FDR/BG of EMD should reach LGBRIMH before the last date of opening of technical quotation.** EMD of unsuccessful bidders will be returned in due time.
- b) **PERFORMANCE SECURITY:-** Performance Security, equivalent to 3% of the total cost of the items approved shall have to be deposited by the successful bidder in the form of DD/FDR drawn in favor of Director LGBRIMH, payable at Tezpur. Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. The same amount will be released after fulfillment of contractual obligations and no interest shall be payable thereof.

#### **D. Specification of CCTV Camera**

<b>Sl. No.</b>	<b>Description of Materials</b>	<b>Quantity</b>
1	8MP IR Bullet Camera (2.8mm Lens) SATATYA MIBR80FL28CWS	13
2	16 Channel NVR with 4k Support and 2 HDD Slot SATATYA NVR1602X	1
3	Installation Charge	1 job
4	Media Converter	2
5	Fiber Patch Cord	4
6	4 PORT POE Switch Gigabit	1
7	6TB HDD	1
8	UPS 1KV	1
9	19'inch Display	1
10	4U Rack	1
11	RJ 45 Connector	1 pckt
12	Wiring & Cabling Charge	2000 mtr
13	Cat6 Cable – 305 mtr	1 coil
14	Optical Fiber Cable armoured 6 core	1500 mtr

**Warranty Period:** Warranty period should be for 3 years from date of successful installation and testing of the work. The successful bidder should provide after sale service after expiry of the warranty period.

#### **E. Purchasers Rights :-**

- a. Institute reserves the right to accept/reject any or all the Quotations in whole or in part and annul the quotation process without assigning any reason whatsoever.
- b. Institute reserves the right to relax/withdraw any of the terms and conditions mentioned in the Tender Document so as to overcome any problem encountered during the selection of the bidders and also during the course of the execution of the contract.
- c. Institute reserves the right to black list a bidder for a suitable period in case the firm fails to honor its quotation without sufficient grounds.
- d. If a firm after award of the contract violates any of the terms and conditions, it shall be blacklisted and its performance guarantee shall be forfeited.

- e. It shall in no way be binding on the Institute to purchase the exact number of quantities as indicated in the Tender Document. The actual quantities that may be purchased by the Institute may vary in each case.
- f. The Institute reserves the right to cancel the NIQ at any stage.

**Scope of Work:**

The quantity of item/items in the BOQ is tentative, it might increase or decrease as per the requirements of the Institute. No claim will be entertained for the increase/ decrease of quantity. However payment for the increase/decreased quantity will be as per the accepted rate. Whereas the other items may vary as per location & requirement. Material description as per BOQ.

**Note :** The actual requirement of IP Camera, NVR , HDD, OFC, Cat-6 cable , Power adapters, etc. may vary as per requirement ,Therefore the parties may be visit our location on any working day between 8 AM to 6.00 PM to access the actual requirement before submitting the offer.

1. Supply, installation ,Commissioning and Testing of the CCTV Surveillance system as per the details mentioned as above is in scope of Supplier of software, configuration of camera etc. in NVR will be in scope of supplier. The software required to view the images in Mobile to be installed in NVR by the supplier. However the required Internet connectivity will be provided by LGBRIMH.
2. If any other item than the items listed above is required to complete the commissioning of the proposed system, it will be under the scope of supplier.
3. OFC and Cat-6 Cable laying, 4 U cabinet etc. all will be in Scope of bidder.
4. Hardware and software configuration to be done by supplier.
5. Supply of Cat-6 cable connecting Jacks (RJ-45) and Crimping in the Scope of Supplier.
6. CCTV camera fixing in scope of Supplier.

**SPECIAL TERMS & CONDITIONS: -**

7. The Detailed specification, Part no. of the Cameras and other Accessories should be submitted by the supplier.
8. Installation and Commissioning of CCTV Surveillance system should be carried out within a month after receipt of the material at site.
9. The supplier shall warranty to replace, rectify or repair free of cost at the LGBRIMH Campus site, the component or part of item proved to have become unserviceable due to any of the above defects within a period of 12 months from the date of use of the material or 18 months from the date of dispatch of item, whichever is later.

<b>8 MP Fixed Bullet Camera</b>		
<b>S. No</b>	<b>Parameter</b>	<b>Specifications</b>
1	<b>Image Sensor</b>	½.8" Progressive Scan, Backlight illuminated CMOS Sensor  Note: The bidder must state the Make and model of the sensor to ensure the authenticity of the component. the bid would be disqualified if the sensor used is not as mentioned by the bidder
2	<b>Maximum Resolution</b>	8 MP (3840*2160)
3	<b>Lens Type</b>	2.8 mm fixed lens
4	<b>FOV</b>	HFOV - 106.9° VFOV - 56.9° DFOV - 127.9°
5	<b>Aperture (F#)</b>	F 1.6
6	<b>Iris</b>	Fixed iris
7	<b>Shutter speed</b>	1/15s-1/100000s
8	<b>Minimum Illumination</b>	Colour - 0.01 Lux @ (F1.2 AGC ON) Monochrome - 0 Lux
9	<b>Day/Night Camera Switching</b>	Automatic/ Manual/ schedule
10	<b>Built in IR irradiance up to</b>	30 m
11	<b>Noise Reduction</b>	2 DNR, 3 DNR
12	<b>Adaptive streaming</b>	Should reduce the FPS and Bitrate during no activity period.
13	<b>Signal to Noise Ratio (SNR)</b>	≥70 dB
14	<b>Back light Compensation (BLC)</b>	Supported
15	<b>Wide Dynamic Range (WDR)</b>	120 dB True WDR
16	<b>VCA</b>	Motion detection, View Tamper Detection, Tripwire detection, object Intrusion
17	<b>Events and actions</b>	IP conflict, Network Disconnect, Storage Full, Time Trigger, E- mail, SMS, TCP notification
18	<b>Image Enhancement</b>	Saturation/ Contrast/ Sharpness/Brightness/Auto Exposure/ White balance
19	<b>ONVIF Compliance</b>	ProfileS, G The IP Camera make, and model shall appear on the ONVIF Conformant products List
20	<b>Unicasting/ Multicasting</b>	Supported
21	<b>Auto initiation</b>	The camera shall connect to the Video Management Software (VMS) or Network Video recorder (NVR) of same brand without any need of Static IP to the Camera in LAN as well as WAN.
22	<b>ROI</b>	Supported
23	<b>Privacy masking</b>	Up to 8 Zone
24	<b>AWB</b>	Supported
25	<b>Network Failure recording</b>	In case of Network failure, the Camera shall start recording on NAS, which can be retrieved back when the network connectivity restores (If VMS belongs to the same brand)
26	<b>MAC Address</b>	The Mac Address of the Camera shall be registered in the name of the OEM.

27	<b>Supported Resolutions</b>	3842 × 2160, 3200 x 1800, 2592 x 1944, 2592 x 1520, 2048 x 1536, 1920 x 1080,720p, D1, 2CIF, VGA, CIF
28	<b>No of Stream Profiles</b>	4
29	<b>Video Compression</b>	H.265 H.264 MJPEG
30	<b>Frame Rate (FPS)</b>	1 to 30
31	<b>Video Standard</b>	PAL
32	<b>Number of Streaming profiles support</b>	Four streams support Profile1 :- 14k @30 FPS H.264, H.265 Profile2 :- D1 @30 FPS H.264, H.265 Profile3 :- 3MP @10 FPS H.264, H.265, MJPEG Profile4 :- 2MP @15 FPS H.264, H.265, MJPEG
33	<b>Bitrate</b>	128kbps-16Mbps
34	<b>Edge Storage</b>	NAS
35	<b>Bitrate Type</b>	CBR, VBR
<b>Network</b>		
36	<b>Ethernet</b>	10Base-T/100BaseTX Ethernet (RJ-45)
37	<b>Network protocols</b>	TCP/IP, HTTP, HTTPS, DSCP, QoS, DHCP, DNS, DDNS, RTP, RTCP, RTSP, PPPOE, SMTP, NTP, TLS/SSL, FTP, ICMP, IGMP, ARP, UDP, 802.1x, SNMP,UPnP,Bonjour
<b>General</b>		
38	<b>Regulatory Approvals/ Certifications:</b>	CE, FCC, EN/IEC,IP66,BIS,  Note: All the reports and certificates shall be from a NABL accredited Lab
39	<b>Power</b>	POE (802.3af/at), 12 V 2A
40	<b>Operating Temperature</b>	-30°C- +60°C
41	<b>Storage Temperature</b>	-30°C- +60°C
42	<b>Operating Humidity</b>	90% or less

<b>TENDER SPECIFICATIONS</b>	
<b>Sr. NO</b>	<b>SOFTWARE SPECIFICATIONS</b>
1	It Should be Possible to configure, playback & live streaming of cameras added to other NVR from the main NVR without the need of any Server/workstation.
2	The system should be capable of integrating with IP cameras of any brand which supports ONVIF 2.0 & above or ONVIF S profile.
3	it should be possible to define a different number of Retention days for individual cameras.
4	NVR should have a configuration wizard for quick configurations.
5	NVR should show the estimated number of storage days.
6	The device must be capable of taking Snapshot with integrated Access control and time attendance system of the same brand in case of user allow/denied events.
7	Digital Zoom during live view.
8	The system should be able to take a Snapshot during live view/ playback in JPEG format.
9	The Device Must Provide Configuration Backup.
10	It Should Have its Own Free DNS Server.
11	Video pop-up for both Desktop and Local clients.
12	3 User Access Levels (Default): Admin, Viewer, and Operator

13	10,000 Events Log
14	NVR Should Be Capable of Exporting Files in Native and AVI File Format to FTP and USB.
15	NVR should have IP Address Filtering to Enhance Security.
16	System Admin Should Be Capable of Programming PTZ Tour.
17	Dual Stream Option Should Be Available for Simultaneous Recording and Transmission of Video on The Network Depending on The Bandwidth.
18	The system should support Daylight Saving Time (DST).
19	The Device Should Be Designed, Developed, and Manufactured in India.
	<b>MOBILE CLIENT</b>
20	Mobile application should be Provided by The Vendor Free of Cost with the NVR.
21	It should be possible to see the playback from a mobile client.
22	The Mobile client Should Have 4 x 4 Layout for Display cameras.
23	The Mobile client Should Have Digital Zoom functionality.
24	The Mobile client Should Be Able to Control PTZ Cameras.
25	The Mobile client Software Should Support Up To 50 NVRs.
26	Software Should Have Feature to Configure Camera as Favourite Channels.
27	Mobile Viewer Application Should Function on Android and IOS Based Phones.
28	Mobile Viewer Application Should Support Calling from Mobile App Feature Where a Mobile Number Can be Added Per Camera in the Device and The User Can Directly Call a Concerned Person by Just One Click on Camera View from Mobile(without any SIM card in NVR)

<b>16 Channel NVR with 2 SATA slots.</b>	
<b>SYSTEM</b>	
Control Mode	Desktop Client, Mobile Client, and Local client (Through HDMI)
OS	Embedded Linux
Processor	ARM cortex- Quad Core
<b>VIDEO AND AUDIO</b>	
Video-Input	16 IP channels
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
<b>DISPLAY</b>	
Recording Resolution	Up to 12MP
Decoding Resolution (on local display)	4K, 2K, 1080p, 720p, D1, CIF
Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1⊕+12, 1+9, 4+9,2+12, 5x5, 6x6 and Sequential
Digital Zoom	Required in both live view & Playback
OSD	Channel Number, Name, Bitrate, video loss
Snapshot Format	JPEG
Recording type	Continuous, Scheduled, Manual, Alarm
Bandwidth Optimization	Yes
<b>PLAYBACK AND BACKUP</b>	



Synchronous Playback	4 channels
Search Mode	Date & Time, Camera, Recording Type, Recording Drive
Playback Modes	Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next-Previous Frame
Backup	Manual Backup & Scheduled backup
Configuration Backup	Required
Remote Operations	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade
<b>VIDEO DETECTION AND ALARMS</b>	
Camera events	Motion Detection, Recording Start, Recording Fail, Camera offline, Camera online
System events	Manual Trigger, On Boot Alarm, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail
Actions	Recording on Selected Channel, Upload Images on FTP/Email server, Email Notification with Snapshot, TCP Notification, Recall PTZ Preset Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification,
<b>DEVICE STATUS</b>	
Camera status, Manual recording, Scheduled recording, Alarm recording, Adaptive recording	Required
FPS and GOP count	Required
Motion detection, View tampering, Tripwire, Object intrusion, Missing Object, Suspicious Object, Loitering Detection, Audio Exception, Object Counting	Required
CPU usage display	Required
CPU temperature display	Required
Thermal shutdown	Required
<b>STORAGE</b>	
SATA Interface	2 SATA III (10TB per port)
NAS	2 NAS (CIFS, NFS)
RAID	RAID-0, RAID-1
Recording Retention	Camera-wise, HDD usage % wise, Day wise
<b>NETWORK</b>	
Incoming Bandwidth	180 Mbps
Outgoing Bandwidth	180 Mbps
Maximum User	128 Programmable
Simultaneous login	9
Network Protocols	TCP/IP, DHCP, PPPOE DNS, DDNS, DNS, FTP, SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration
<b>INTERFACES</b>	
Audio Input	1 Channel, RCA Port (1V <sub>RMS</sub> )
Audio Output	1 Channel, RCA Port (0.5V <sub>RMS</sub> )
Alarm Input	2 Ports (Max. load resistance: 4.7 K $\Omega$ )

Alarm Output	1 Port (Max load power: <50VA, Max load current: <1A)
Network Interface	2 Ports x Ethernet (RJ-45) 10/100/1000Mbps
USB	3 ports (2 x USB 2.0, 1x USB 3.0)
Number of SATA Interface	2 Ports (SATA III)
HDD size	10 TB HDD support (with 6Gb/s speed)
HDMI	HDMI (2.0) – 1 Port (Main)
Reset Switch (Network, User account, and General settings)	Required
Buzzer	Required
<b>CERTIFICATION</b>	
Regulatory Approvals/ Certifications	FCC ROHS, BIS, CE
<b>ELECTRICAL AND MECHANICAL</b>	
Operating temperature	0°C to +50°C (32°F to 122°F)
Humidity range	5% to 95% RH Non-Condensing
Power input	12VDC, 5A
Chassis	19" Rackmount
Power consumption (without Harddisk)	≤20W

**Technical Quotation**

Quotation for Supply, Installation, Testing and Commissioning of CCTV Camera at  
LGBRIMH, Tezpur

Sl. No.	Description	Company Response	Remarks
1.	Profile of firm/company Year of establishment Number of employees a. Technical b. Non Technical Annual turnover for the last 3 Years. (Provide details & relevant documents.) Attached separate sheet.		
2.	Names & addresses of similar projects in Govt/ Semi-govt./Govt. Autonomous academic institution along with the telephone numbers of the contact persons of the clients to whom similar services provided by your company. Documentary evidences to be provided.		
3.	Contact details of the authorized person of the company. Name : Office Tel No. : Mobile no. : Official E-mail id :		
4.	Resolution time to rectify problem		
5.	Authorized Business partner of the above CCTV cameras, attached the valid certificate.	Yes/No	
6.	Training for Administrator (Technical)	Yes/No	
7.	Name of the product quoted		
8.	Any other Information from the Vendor		
9.	Escalation matrix for troubleshooting		
10.	Deviation of specifications (if any)		

Date :

(Signature)

**CRIMINAL LIABILITY UNDERTAKING**

***(To be executed on Rs.100/-Non-judicial Stamp Paper duly attested by Public Notary)***

I.....S/o.....  
..... Resident of

.....

.....

..... Do solemnly pledge and affirm:

1. That I am the proprietor /partner/authorized signatory of

M/s. ....  
.....

1. No police case is pending against the Proprietor / partner of the Company (Agency).  
Indicate any convictions if any against the Company/firm/partner.
2. I/We have not quoted the price higher than previously supplied to any Government  
Institute / Organisation / reputed Private Organisation in recent past.
3. (Proprietor/firm) has never blacklisted by any organization.

**Name & Signature**  
**Seal of the participating Bidder Company**  
**Affirmation/Verification**

**UNDERTAKING**

**The Director,  
LGBRIMH, Tezpur**

**Sir,**

1. The undersigned certify that I/we have gone through the entire tender documents including terms and conditions mentioned in the tender document and undertake to comply with them. I/we have no objection for any of the content of the tender document and I/we undertake not to submit any complaint/ representation against the tender document after submission date and time of the tender. The rates quoted by me/us are valid and binding on me/us for acceptance till the validity of tender.
2. I/ We enclose herewith the bank DD/FDR/BG No. Dated.....For Rs. .... (For Rupees.....) drawn in favor of the Director LGBRIMH, Tezpur towards EMD.
3. I/We undersigned hereby bind myself/ourselves to LGB Regional Institute of Mental Health, Tezpur, Assam -784001 to supply the approved product in the approved prices to **LGBRIMH, Tezpur**. The product shall be of the best quality and of the kind as per the requirement of the institution. The decision of the Director, **LGBRIMH, Tezpur**, India (herein after called the said officer) as regard to the quality and kind of article shall be final and binding on me/us.
4. I/we undertake to arrange for a demonstration of the product, if required. Failure to arrange for a demonstration on the given date may lead to cancellation of the quotation. Cost of such demonstration shall be borne by me/ us.
5. Performance security 3% of the cost of the product approved shall be deposited by me/us in the form of DD/FDR/Bank Guarantee in the name of Director, **LGBRIMH, Tezpur** on award of the contract from a Nationalised / Commercial Bank and shall remain in the custody of the Director **LGBRIMH, Tezpur** till the validity of the Contract period plus two month. Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.
6. I/We declare that no legal/financial irregularities are pending against the proprietor Partner of the tendering firm or manufacturer.
7. I/We undertake that the product supplied are as per Make/Model /Catalogue/ technical literature description.
8. I/we do hereby confirm that the prices/rates quoted are fixed and are at par with the prices quoted by me/us to any other Govt. of India/Govt. Hospitals/Medical Institutions/PSUs. I/we also offer to supply the product at the prices and rates not exceeding those mentioned in the Financial Quotation.
9. I pledge and solemnly affirm that the information submitted in quotation documents is true to the best of my knowledge and belief. I further pledge and solemnly affirm that nothing has been concealed by me and if anything adverse comes to the notice of purchaser during the validity of tender period, the Director, **LGBRIMH, Tezpur** (India) will have full authority to take appropriate action as he/she may deem fit.

**Signature of bidder**  
With seal of firm (Name of bidder)

Place .....

Date.....

## Organization's contact details

NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent	
Phone	
Fax	
E-mail	
Contact Person Name	
Mobile Number	
TIN Number	
PAN Number	
GST Number	
Bank details	
EMD Details	

**Financial Bid**

Quotation for Supply, Installation, Testing and Commissioning of CCTV Camera at  
LGBRIMH, Tezpur

<b>Sl. No.</b>	<b>Description of Materials</b>	<b>Quantity</b>	<b>Rate per unit (inclusive of installation charges if applicable) (in Rs.)</b>	<b>GST (in Rs.)</b>	<b>Total Amount inclusive of GST (in Rs.)</b>
1	8MP IR Bullet Camera (2.8mm Lens) SATATYA MIBR80FL28CWS	13			
2	16 Channel NVR with 4k Support and 2 HDD Slot SATATYA NVR1602X	1			
3	Installation Charge	1 job			
4	Media Converter	2			
5	Fiber Patch Cord	4			
6	4 PORT POE Switch Gigabit	1			
7	6TB HDD	1			
8	UPS 1KV	1			
9	19'inch Display	1			
10	4U Rack	1			
11	RJ 45 Connector	1 pckt			
12	Wiring & Cabling Charge	2000 mtr			
13	Cat6 Cable – 305 mtr	1 coil			
14	Optical Fiber Cable armoured 6 core	1500 mtr			
<b>Grand Total</b>					

AMC for CCTV Cameras and its peripherals at LGBRIMH, Tezpur after warranty period

Sl. No.	Item Description	Rate per unit (in Rs.)	GST (in Rs.)	Total Amount inclusive of GST (in Rs.)
1.	AMC for 1 <sup>st</sup> Year			
2.	AMC for 2 <sup>nd</sup> Year			
3.	AMC for 3 <sup>rd</sup> Year			
4.	AMC for 4 <sup>th</sup> Year			
5.	AMC for 5 <sup>th</sup> Year			



**Specification of CCTV Camera**

**Annexure VI**

<b>8 MP Fixed Bullet Camera</b>				
<b>S. No</b>	<b>Parameter</b>	<b>Specifications</b>	<b>Compliance (Yes/NO)</b>	<b>Remarks</b>
1	<b>Image Sensor</b>	½.8" Progressive Scan, Backlight illuminated CMOS Sensor  Note: The bidder must state the Make and model of the sensor to ensure the authenticity of the component. the bid would be disqualified if the sensor used is not as mentioned by the bidder		
2	<b>Maximum Resolution</b>	8 MP (3840*2160)		
3	<b>Lens Type</b>	2.8 mm fixed lens		
4	<b>FOV</b>	HFOV - 106.9° VFOV - 56.9° DFOV - 127.9°		
5	<b>Aperture (F#)</b>	F 1.6		
6	<b>Iris</b>	Fixed iris		
7	<b>Shutter speed</b>	1/15s-1/100000s		
8	<b>Minimum Illumination</b>	Colour - 0.01 Lux @ (F1.2 AGC ON) Monochrome - 0 Lux		
9	<b>Day/Night Camera Switching</b>	Automatic/ Manual/ schedule		
10	<b>Built in IR irradiance up to</b>	30 m		
11	<b>Noise Reduction</b>	2 DNR, 3 DNR		
12	<b>Adaptive streaming</b>	Should reduce the FPS and Bitrate during no activity period.		
13	<b>Signal to Noise Ratio (SNR)</b>	≥70 dB		
14	<b>Back light Compensation (BLC)</b>	Supported		
15	<b>Wide Dynamic Range (WDR)</b>	120 dB True WDR		
16	<b>VCA</b>	Motion detection, View Tamper Detection, Tripwire detection, object Intrusion		
17	<b>Events and actions</b>	IP conflict, Network Disconnect, Storage Full, Time Trigger, E- mail, SMS, TCP notification		
18	<b>Image Enhancement</b>	Saturation/ Contrast/ Sharpness/Brightness/Auto Exposure/ White balance		
19	<b>ONVIF Compliance</b>	ProfileS, G The IP Camera make, and model shall appear on the ONVIF Conformant products List		
20	<b>Unicasting/ Multicasting</b>	Supported		
21	<b>Auto initiation</b>	The camera shall connect to the Video Management Software (VMS) or Network Video recorder (NVR) of same brand without any need of Static IP to the Camera in LAN as well as WAN.		
22	<b>ROI</b>	Supported		
23	<b>Privacy masking</b>	Up to 8 Zone		
24	<b>AWB</b>	Supported		

25	<b>Network Failure recording</b>	In case of Network failure, the Camera shall start recording on NAS, which can be retrieved back when the network connectivity restores (If VMS belongs to the same brand)		
26	<b>MAC Address</b>	The Mac Address of the Camera shall be registered in the name of the OEM.		
<b>Video</b>				
27	<b>Supported Resolutions</b>	3842 × 2160, 3200 x 1800, 2592 x 1944, 2592 x 1520, 2048 x 1536, 1920 x 1080,720p, D1, 2CIF, VGA, CIF		
28	<b>No of Stream Profiles</b>	4		
29	<b>Video Compression</b>	H.265 H.264 MJPEG		
30	<b>Frame Rate (FPS)</b>	1 to 30		
31	<b>Video Standard</b>	PAL		
32	<b>Number of Streaming profiles support</b>	Four streams support Profile1 :- 14k @30 FPS H.264, H.265 Profile2 :- D1 @30 FPS H.264, H.265 Profile3 :- 3MP @10 FPS H.264, H.265, MJPEG Profile4 :- 2MP @15 FPS H.264, H.265, MJPEG		
33	<b>Bitrate</b>	128kbps-16Mbps		
34	<b>Edge Storage</b>	NAS		
35	<b>Bitrate Type</b>	CBR, VBR		
<b>Network</b>				
36	<b>Ethernet</b>	10Base-T/100BaseTX Ethernet (RJ-45)		
37	<b>Network protocols</b>	TCP/IP, HTTP, HTTPs, DSCP, QoS, DHCP, DNS, DDNS, RTP, RTCP, RTSP, PPPOE, SMTP, NTP, TLS/SSL, FTP, ICMP, IGMP, ARP, UDP, 802.1x, SNMP,UPnP,Bonjour		
<b>General</b>				
38	<b>Regulatory Approvals/ Certifications:</b>	CE, FCC, EN/IEC,IP66,BIS,  Note: All the reports and certificates shall be from a NABL accredited Lab		
39	<b>Power</b>	POE (802.3af/at), 12 V 2A		
40	<b>Operating Temperature</b>	-30°C- +60°C		
41	<b>Storage Temperature</b>	-30°C- +60°C		
42	<b>Operating Humidity</b>	90% or less		

<b>TENDER SPECIFICATIONS</b>			
<b>Sr. NO</b>	<b>SOFTWARE SPECIFICATIONS</b>	<b>Compliance (Yes/NO)</b>	<b>Remarks</b>
1	It Should be Possible to configure, playback & live streaming of cameras added to other NVR from the main NVR without the need of any Server/workstation.		
2	The system should be capable of integrating with IP cameras of any brand which supports ONVIF 2.0 & above or ONVIF S profile.		
3	it should be possible to define a different number of Retention days for individual cameras.		
4	NVR should have a configuration wizard for quick configurations.		
5	NVR should show the estimated number of storage days.		

6	The device must be capable of taking Snapshot with integrated Access control and time attendance system of the same brand in case of user allow/denied events.		
7	Digital Zoom during live view.		
8	The system should be able to take a Snapshot during live view/ playback in JPEG format.		
9	The Device Must Provide Configuration Backup.		
10	It Should Have its Own Free DNS Server.		
11	Video pop-up for both Desktop and Local clients.		
12	3 User Access Levels (Default): Admin, Viewer, and Operator		
13	10,000 Events Log		
14	NVR Should Be Capable of Exporting Files in Native and AVI File Format to FTP and USB.		
15	NVR should have IP Address Filtering to Enhance Security.		
16	System Admin Should Be Capable of Programming PTZ Tour.		
17	Dual Stream Option Should Be Available for Simultaneous Recording and Transmission of Video on The Network Depending on The Bandwidth.		
18	The system should support Daylight Saving Time (DST).		
19	The Device Should Be Designed, Developed, and Manufactured in India.		
	<b>MOBILE CLIENT</b>		
20	Mobile application should be Provided by The Vendor Free of Cost with the NVR.		
21	It should be possible to see the playback from a mobile client.		
22	The Mobile client Should Have 4 x 4 Layout for Display cameras.		
23	The Mobile client Should Have Digital Zoom functionality.		
24	The Mobile client Should Be Able to Control PTZ Cameras.		
25	The Mobile client Software Should Support Up To 50 NVRs.		
26	Software Should Have Feature to Configure Camera as Favourite Channels.		
27	Mobile Viewer Application Should Function on Android and IOS Based Phones.		
28	Mobile Viewer Application Should Support Calling from Mobile App Feature Where a Mobile Number Can be Added Per Camera in the Device and The User Can Directly Call a Concerned Person by Just One Click on Camera View from Mobile(without any SIM card in NVR)		

<b>16 Channel NVR with 2 SATA slots.</b>		Compliance (Yes/NO)	Remarks
<b>SYSTEM</b>			
Control Mode	Desktop Client, Mobile Client, and Local client (Through HDMI)		
OS	Embedded Linux		
Processor	ARM cortex- Quad Core		
<b>VIDEO AND AUDIO</b>			
Video-Input	16 IP channels		
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		
<b>DISPLAY</b>			
Recording Resolution	Up to 12MP		

Decoding Resolution (on local display)	4K, 2K, 1080p, 720p, D1, CIF		
Split (Through LAN/HDMI)	1x1, 2x2, 3x3, 4x4, 1+5, 1+7, 3+4, 2+8, 1+12, 1⊕+12, 1+9, 4+9, 2+12, 5x5, 6x6 and Sequential		
Digital Zoom	Required in both live view & Playback		
OSD	Channel Number, Name, Bitrate, video loss		
Snapshot Format	JPEG		
Recording type	Continuous, Scheduled, Manual, Alarm		
Bandwidth Optimization	Yes		
<b>PLAYBACK AND BACKUP</b>			
Synchronous Playback	4 channels		
Search Mode	Date & Time, Camera, Recording Type, Recording Drive		
Playback Modes	Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next-Previous Frame		
Backup	Manual Backup & Scheduled backup		
Configuration Backup	Required		
Remote Operations	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade		
<b>VIDEO DETECTION AND ALARMS</b>			
Camera events	Motion Detection, Recording Start, Recording Fail, Camera offline, Camera online		
System events	Manual Trigger, On Boot Alarm, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail		
Actions	Recording on Selected Channel, Upload Images on FTP/Email server, Email Notification with Snapshot, TCP Notification, Recall PTZ Preset Position, Turn On/Off Alarm Outputs, Buzzer Notification, SMS Notification,		
<b>DEVICE STATUS</b>			
Camera status, Manual recording, Scheduled recording, Alarm recording, Adaptive recording	Required		
FPS and GOP count	Required		
Motion detection, View tampering, Tripwire, Object intrusion, Missing Object, Suspicious Object, Loitering Detection, Audio Exception, Object Counting	Required		
CPU usage display	Required		
CPU temperature display	Required		
Thermal shutdown	Required		
<b>STORAGE</b>			
SATA Interface	2 SATA III (10TB per port)		
NAS	2 NAS (CIFS, NFS)		
RAID	RAID-0, RAID-1		
Recording Retention	Camera-wise, HDD usage % wise, Day wise		
<b>NETWORK</b>			

Incoming Bandwidth	180 Mbps		
Outgoing Bandwidth	180 Mbps		
Maximum User	128 Programmable		
Simultaneous login	9		
Network Protocols	TCP/IP, DHCP, PPPOE DNS, DDNS, DNS, FTP, SMTP, NTP, RTP/RTSP, CIFS/NFS, Network Acceleration		
<b>INTERFACES</b>			
Audio Input	1 Channel, RCA Port (1V <sub>RMS</sub> )		
Audio Output	1 Channel, RCA Port (0.5V <sub>RMS</sub> )		
Alarm Input	2 Ports (Max. load resistance: 4.7 KΩ)		
Alarm Output	1 Port (Max load power: <50VA, Max load current: <1A)		
Network Interface	2 Ports x Ethernet (RJ-45) 10/100/1000Mbps		
USB	3 ports (2 x USB 2.0, 1x USB 3.0)		
Number of SATA Interface	2 Ports (SATA III)		
HDD size	10 TB HDD support (with 6Gb/s speed)		
HDMI	HDMI (2.0) – 1 Port (Main)		
Reset Switch (Network, User account, and General settings)	Required		
Buzzer	Required		
<b>CERTIFICATION</b>			
Regulatory Approvals/ Certifications	FCC ROHS, BIS, CE		
<b>ELECTRICAL AND MECHANICAL</b>			
Operating temperature	0°C to +50°C (32°F to 122°F)		
Humidity range	5% to 95% RH Non-Condensing		
Power input	12VDC, 5A		
Chassis	19” Rackmount		
Power consumption (without Harddisk)	≤20W		