



অসম লোকসেৱা আয়োগ

ASSAM PUBLIC SERVICE COMMISSION

Jawaharnagar, Khanapara, Guwahati-781 022

No. 1PSC/Comp-15/2019-2020

Dated Guwahati 24th December, 2019

DETAILS OF NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF IP CCTV SYSTEM IN APSC BUILDING

INVITATION FOR QUOTATIONS

This invitation of Quotations is for Supply and installation/laying of active and passive components/equipment for IP CCTV system of Assam Public Service Commission (APSC) and commissioning the CCTV system.

In this connection Sealed Tenders are invited in two cover system (i.e., Technical bid and financial bid) subject to the following terms and conditions, from the intending bidders to reach this office on or before scheduled date and time. The tender (Technical bid) will be opened on the specified day in the presence of bidders or their authorized agents who may choose to be present. The financial bid of only such bidders whose technical bid is accepted shall be opened later.

The Committee reserves the right of accepting and/or rejecting any/all Quotations without assigning any reasons thereof.

This authority is not under any binding to accept the lowest price quoted by the firms.

INSTRUCTIONS TO TENDERERS

Procedure for Submission of bids

Sealed Bids in TWO separate sealed Envelopes indicating clearly 'Envelop - No.1 - Technical bid' and 'Envelope No.2 – Price bid' shall be addressed to "**Secretary, Assam Public Service Commission, Jawahar Nagar, Khanapara, Guwahati-781022**" and Envelops should also be super scribed '**Supply, installation, testing & commissioning of IP CCTV system at the APSC**' and name of the firm. Both the envelopes shall be submitted in one sealed envelope super scribed Name and address of the firm and tender reference. Last date for submission of tenders is **13th January, 2020 by 01:00 PM** and will be opened on the same day.

Documents Comprising the Quotations

Envelope no. 1 shall contain:

- "Technical bid" of tender with every page signed and stamped.
- An earnest money deposit (EMD) of Rs. 10,000/- (Ten thousand only) must be submitted with the technical bid by way of Demand Draft (DD) from Nationalised/Scheduled Bank, drawn in favour of "Assam Public Service Commission payable at Guwahati", to be submitted in a separate envelop. EMD envelop shall be super scribed as EMD Supply, installation, testing & commissioning of IP CCTV system at APSC, Khanapara.

Envelope no. 2 shall contain:

- Price Bid shall be addressed by name to "**Secretary, Assam Public Service Commission, Jawahar Nagar, Khanapara, Guwahati-781022**"
- Envelope No.2 shall not contain any condition whatsoever and any conditional bids shall be rejected.
- Envelope No.2 will be opened on some suitable date, after scrutiny of the documents submitted by tenderers in envelope 1. Price Bid envelopes shall be opened only in respect of those tenderers who is found to be eligible as per the prequalification criteria specified in the NIT and have complied with all the requirements in tender document.

FORM OF TENDER

Secretary
Assam Public Service Commission
Jawaharnagar, Khanapara, Guwahati-22

Dear Sir/Madam

Notice inviting tender – Supply, installation, testing & commissioning of IP CCTV system at office of the APSC, Khanapara.

- 1) I / We have examined the Scope of Works, Specifications and Schedule of Quantities and Terms and Conditions relating to the tender for the said works after having obtained the Tender document invited by you.
- 2) I / We have visited the site, examined the site of works specified in the Tender Document and acquired the requisite information relating thereto as affecting the Tender.
- 3) I / We hereby offer to execute and complete the works in strict accordance with the Tender Document at the item rates quoted by me / us in the attached Schedule of Quantities in all respects as per the specifications and Scope of Works described in the Tender Document and the Annexures containing Terms and Conditions.
- 4) I / We enclose herewith interest-free Earnest Money Deposit (EMD) for Rs.10,000/- (Rupees Ten Thousand Only) by Demand Draft payable at Guwahati in favour of "Assam Public Service Commission" and the sum shall be forfeited in the event of our withdrawal of Tender before expiry of the validity period of offer and/or in the event of our failure to execute the Contract when called upon to do so by accepting our Quotation.
- 5) In the event of this tender being accepted, I/We agree to enter into and execute an Agreement with APSC.
- 6) I/ We agree to pay all Government (Central and State) Taxes such as Sales Tax, Works Contract Tax, VAT, Excise Duty, Octroi, GST etc. and other taxes prevailing from time to time and the rates quoted by me/us are inclusive of the same.
- 7) The rate quoted by me / us is inclusive of all taxes like GST, Income Tax, etc.
- 8) The rates quoted by me / us are firm and shall not be subjected to variations on account of fluctuation in the market rates, taxes or any other reasons whatsoever.
- 9) Should this tender be accepted, I / we hereby agree to abide by and fulfill all the Terms and Conditions and Provisions of the said Contract Document annexed hereto.

Name of the person authorized to sign and submit the Tender

I).....

II).....

Place:

Date:

Yours faithfully

Signature

Seal

Pre-Qualification Criteria

Minimum Eligibility Criteria for pre-qualification of tenderers is as follows:

The Bidding Firm/Company:-

- 1) Should have at least 05 years of experience in the field of IP CCTV systems.
- 2) Should have successfully completed in last 05 Years, in the field of IP CCTV systems for government buildings, Banks/Fls premises, reputed private organizations etc.
- 3) Should submit minimum 4(Four) Work/Purchase orders and Completion certificates relating to IP CCTV system issued by the client should be enclosed with the Qoutation.
- 4) Should not have been barred by any PSU/Govt. Dept. in doing business with them. (Please submit self-declaration).
- 5) Should have annual turnover of atleast 25 lakh (Twenty five lakh) during last three years.
- 6) Should submit audited balance sheets / P&L account and Income Tax Return certificates for the last 3 financial years. Document related to Average Annual Financial Turnover along with balance sheet should be certified from Chattered Accountant (CA).
- 7) Should submit updated and valid trade license, PAN details, GST registration certificate, ISO certificate and all relevant up to date tax clearance certificates.
- 8) Should submit manufacturer's authorization letter on the OEM's letter head duly signed by authorized signatory addressed to The Tender Inviting Authority. Authorization from OEM in original must be submitted for warranty and service support.
- 9) Should have its base in Assam and must be incorporated & registered under Companies Act/Societies Registration Act/Firm registration act/Trust Act and should be in operations for minimum of last 3 years in the relevant field. (submit Proof of Registration).
- 10) Should have technical staff capable of attending service calls & coordinate with OEM for repair/shifting work is to be taken urgently. The bidder should have on role technical employees (As proof submit ESIC and PF registration certificate with copies up to date payment challans).

Earnest Money Deposit

An earnest money deposit(EMD) of **Rs. 10,000/-(Ten thousand only)** must be submitted with the technical bid by way of Demand Draft (DD) from Nationalised/Scheduled Bank, drawn in favour of "**Assam Public Service Commission payable at Guwahati**", to be submitted in a separate envelop. EMD envelop shall be super scribed as EMD Supply, installation, testing & commissioning of IP CCTV system at APSC, Khanapara. The Tender without EMD shall be rejected out rightly. No interest shall be paid on the EMD thus collected.

EMD of the successful bidder shall be returned after the successful completion of the work, whereas EMD of the unsuccessful bidders will be returned upon the issuance of work order and acceptance of the same by the successful bidder. Bidders registered with MSME/NSIC/SSI are exempted from paying EMD (should submit necessary documents).

The EMD will be forfeited in following cases:

- a) If the bidder fails to accept the order based on his/her offer (bid) and within the prescribed time.
- b) If the bidder fails to supply the material with specifications in compliance to as mentioned in Technical Specifications.
- c) If the bidder delays supply beyond a reasonable time resulting in disruption of APSC works.

Warranty period

The items covered by the schedule of requirement shall carry minimum 24 months (two years) onsite comprehensive warranty from the date of installation, service support and two years product warranty of all cameras, NVR and HDD product by OEM of the equipments. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours.

The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary. The total Security Deposit @ 10% submitted by the successful tenderer shall originally be valid till end of warranty period.

The OEM must submit an undertaking duly signed by the authorized signatory that no refurbished materials to be used and about OEM's Comprehensive onsite warranty.

Scope of work

The scope of work shall include the following.

- 1) Supply, installation, testing and commissioning of IP CCTV System at Assam Public Service Commission, Jawahar Nagar, Khanapara, Guwahati-781022.
- 2) A network, comprising of 16-port PoE+ switches connected with CAT6 and OFC, shall be laid for transmission of signal from cameras to the Control Stations. The Main Control Station shall for Video Storage and further Control.
- 3) The CCTVs Surveillance System need to be functional on 24x7 basic i.e. 24 hours all the days and need to have at least 60 days data storage capacity for all CCTVs.
- 4) The vendor will liaison on behalf of APSC, with other different OEMs for repairing of equipment(s) and all other accessories during warranty period.
- 5) Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to APSC.
- 6) Delivery of entire materials to APSC, Khanapara including packing, handling, transporting, clearing, loading/unloading.
- 7) We are having Optical Fibre Cable (OFC) to run Internet/Intranet Facility at the APSC. All the bidders are requested to survey the sites before quoting for existing network as well as new requirements if any that may arise.
- 8) The contractor shall provide the APSC with details of the training required by personnel to operate and maintain the CCTV system along with proper diagrams and documentations of the IP CCTV system.
- 9) Providing all-inclusive service including all spares, etc. during warranty period.
- 10) All engineering, equipment, labour, and permits required to satisfactorily complete the work required by this Specification.
- 11) Any other work related to but not specifically mentioned above, required for completion of the job as per the intent and scope of work.

Validity of Bid:

The bids submitted shall remain valid for a period of 180 days from the date of the opening of the bids.

Amendment of bid documents

- 1) At any time, prior to the date of submission of bids, the purchaser may for any reason modify the Bid documents.
- 2) The amendment, if any will be notified on the APSC's official Website. Bidders are advised to visit the website for updates on regular basis.

Firmness of rates

The rates quoted in the tender/offer shall be for the complete item including supply, installation, testing & commissioning at site. The rates quoted in the tender shall include all charges for packing, transport, loading, unloading and for delivery at site. The rates shall also be firm during the period of contract including extended period if any and rates shall not be subject to exchange variation, labour conditions, and fluctuations in railway freights, taxes or any conditions whatsoever.

Tenderers must include in their rates GST, sales tax, excise duty, octroi, entry tax or any other tax and prevailing duty or other levy as existing, levied by the Central Government or any State Government or Local Authority, transportations charges etc. if applicable.

No claim in respect of increase in GST, sales tax, works contract tax (WCT), excise duty, octroi or other tax, duty or levy during the duration of the contract shall be entertained by the Employer. The same will remain firm during the contract period.

Purchaser's right to accept any bid and to reject any or all bids

The Purchaser does not bind to accept the lowest or any other tender/bid and has the right to cancel the bidding process and reject all bids at any time prior to award of the contract without assigning any reasons whatsoever and without thereby incurring any liability to the affected bidder on the grounds for the Purchaser's action.

Award of contract

The Authority will award the Contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the best bid, provided further that the Tenderer is determined to be qualified to perform the Contract satisfactorily. The Authority shall however not bind itself to accept the best bid or any bid and reserves the right to accept any bid, wholly or in part. Bidder should have to qualify all the terms and conditions and eligibility with proper supporting documentation.

Notification of successful bidder

Purchaser will notify the successful bidder in writing by registered letter or fax or e-mail, to be confirmed in writing by registered letter that its bid has been accepted. The notification of the award will constitute the formation of the contract.

Performance Security Deposit

Within 10 days of the Contractor's receipt of Letter of Intent (LOI)/Work order, the Contractor shall furnish a Performance Security in the form of a Bank Guarantee for an amount equivalent to 10% of the total value of work executed to be issued by a schedule Bank from its branch in **Guwahati**. The Security Deposit to be submitted shall be valid till end of warranty period and to be addressed to the authority inviting the tenders.

Signing of contract

The successful bidder shall execute an agreement on non-judicial stamp paper with APSC within 10 days from date of issue of work order failing which the bidder's EMD may stand forfeited.

Time of Completion:

The work shall be completed within 4 to 5 weeks from the date of issue of work order.

Completion Certificate:

Work Completion certificate shall be issued only after completion of work in all respect and to the entire satisfaction of APSC

Payment of bills

Payment will be made after the completion of all works subject to the satisfaction of the APSC. On completion bills/invoices should be submitted in triplicate to the **Secretary, Assam Public Service Commission**. No advance payment will be made.

Training

Upon completion of the installation & commissioning the Successful Bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at APSC.

Documentation:

The CCTV system contractor, upon completion of all the activities, shall offer the system to the customer for acceptance. For this, the contractor shall provide the customer with the following documentation:

- 1) Copy of detailed report
- 2) Component and equipment list
- 3) Product description sheets
- 4) System design drawing(s)
- 5) System schematic diagram(s)
- 6) System operating manual
- 7) Original licensed copies of all the software

Technical Bid Details

The Technical bid must be accompanied with the following documents each page of which must be signed by the bidder with stamp affixed.

- 1) Non refundable court fee stamp of Rs. 8.25 (Rupees eight & twenty five paisa) only to be affixed to the tender document.
- 2) An earnest money deposit(EMD) of Rs. 10,000/-(Ten thousand only) must be submitted with the technical bid by way of Demand Draft (DD) from Nationalised/Scheduled Bank, drawn in favour of "Assam Public Service Commission payable at Guwahati", to be submitted in a separate envelop.
- 3) Registration Certificate.
- 4) Vendor Profile (Annexure-II)
- 5) Self declaration (Annexure-IV)
- 6) Valid trade license, PAN and GST registration Certificate.
- 7) Income Tax Registration Certificate/PAN No. and latest Income Tax Clearance Certificates.
- 8) Manufacturer Authorization Form (Annexure-III) from OEM for each item quoted.
- 9) Undertaking of after sales service and contact details of the same along with the list of technical staff capable of attending service calls & coordinate with OEM for repair/shifting works.
- 10) Documents related to experiences of executing similar work along with Annexure-VI.
- 11) Turn over details (Annexure-V) along with audited Balance Sheet and Profit and Loss Account for past three years.
- 12) Compliance of Technical Specifications of the IP CCTV system along with Technical literature/datasheet/leaflet and standard certificates shall be submitted.
- 13) Any other documents which are not mentioned in above list but required as per terms and conditions of the tender document.

General Terms and Conditions

- a) The technical bid shall be evaluated in terms of matching specifications and qualifying terms for bidders.
- b) Non conformity of Technical specification will lead to out-right rejection to the offer.
- c) Machinery/Equipment with FCC, UL, RoHS, CE and other standard certifications shall be given preferences.
- d) The Procurement and Tender selection Committee reserves the right to accept or reject any or all the tenders without assigning any reason thereof.

Sd/-
Secretary
Assam Public Service Commission
Jawaharnagar, Khanapara, Guwahati-22

ANNEXURE-I

Details of items and quantity required

To be filled up by the tenderer

S.L. No.	Items	Qty.	Uom	Make and model	Technical compliance as per Specs. (yes/no)	Warranty in years (if applicable)
1	4 Mega Pixels IP Dome Camera	28	Nos.			
2	4 Mega Pixels IP Bullet Camera	4	Nos.			
3	32 Channel Network Video Recorder (NVR)	1	Nos.			
4	16 Port Gigabit PoE+ switch with 2 SFP uplink	9	Nos.			
5	6TB SATA 24X7 Surveillance Specialized HDD	4	Nos.			
6	1000BaseT to 1000BaseLx (10Km) Single mode Media converter (Branded)	6	Nos.			
7	5 KVA Online UPS with 8000 VAH	1	Nos.			
8	48" or more LED Commercial Display (16 x 7 operation)	2	Nos.			
9	CAT6 4 pair UTP cable 305M	3	Box			
10	RJ 45 Connectors for CAT6 termination (100)	1	Box			
11	17U Floor standing Rack with all accessories for NVR, switches and passive components	1	Nos.			
12	6U wall mount rack with all accessories for switches and passive components	2	Nos.			
13	3 core 2.5mm branded electrical cable	300	Mtrs.			
14	Cat6 Patch cords 1 mtr. (Branded)	40	Nos.			
15	Single Port Cat6 UTP I/O with face plate & SMB	50	Nos.			
16	CAT6 24 Port patch panel-Loaded	2	Nos.			
17	Single Mode SC-SC Fiber Optic Duplex Patch cord 3Mtr length	4	Nos.			
18	6AMP switch & 3 pin socket	9	Nos.			
19	HDMI Cable Full HD 5 Meter (Branded)	3	Nos.			
20	HDMI Extender Over UTP CAT6 Cable, Upto 150 Mtr. (Transmitter & Receiver with power adapters) (Branded)	2	Pairs			
21	HDMI Splitter 1 IN 4 OUT Full HD 1080P for LED Commercial Display (Branded)	2	Nos.			

Signature:

Name:

Designation:

Minimum required specifications for 4MP IP Dome Camera*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Specification
Camera	
Camera Type	4MP IP Dome Camera
Resolution	2688 × 1520 @25fps
Lens Size	Minimum 2.8 mm or more
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR
Image sensor	1/3" 4MP Progressive Scan CMOS
3-Axis Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Shutter Speed	1/3s to 1/100,000s
Dynamic Range	Wide Dynamic Range 120dB (True WDR)
IR Range	Minimum 40M or more
Video Stream	Should Support triple Video Stream
Video Compression	Main stream: H.265 Sub stream: H.265 Third stream: H.265
Video Bit Rate	256 Kbps to 16 Mbps
Max. Resolution	4MP (2688×1520)
Resolution	Main Stream : 25fps (2688 × 1520) Sub-Stream : 25fps (640 × 480) Third Stream : 25fps (1280 × 720)
Image Enhancement settings	
ROI	1 fixed region for main stream and sub-stream
Backlight Compensation (BLC)	Required
Highlight Compensation (HLC)	Required
Digital Noise Reduction (DNR)	3D DNR
Wide Dynamic Range (WDR)	True WDR 120dB
Network and Communication	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Network Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP™, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Interoperability	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 6 channels
User Access	Up to 32 users
Reset Switch	Required
Local Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm feature	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error
General	
Smart Features	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, Scene change detection, audio exception detection, Face Detection
Operating Conditions	(-30 °C to +60 °C Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, ϕ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.5A, max. 6W PoE (802.3af, 37V to 57V), 0.2A to 0.1A, max. 7.5W
Protection Level	IP67, IK10
Material	Metal
Certificate	CE,FCC,UL,ROHS, REACH,BIS
Product Warranty	Minimum 2 years
Make	This product shall be manufactured by a manufacturer whose quality system is in compliance with the ISO-9001

Minimum required specifications for 4MP IP Bullet Camera*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Specification
Camera	
Camera Type	4MP IP Bullet Camera
Resolution	2688 × 1520 @25fps
Lens Size	Minimum 4 mm or more
Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR
Image sensor	1/3" 4MP Progressive Scan CMOS
Shutter Speed	1/3s to 1/100,000s
3-Axis Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Dynamic Range	Wide Dynamic Range 120dB (True WDR)
IR Range	Minimum 40M or more
Video Stream	Should Support triple Video Stream
Video Compression	Main stream: H.265 Sub stream: H.265 Third stream: H.265
Video Bit Rate	256 Kbps to 16 Mbps
Max. Resolution	4MP (2688×1520)
Resolution	Main Stream : 25fps (2688 × 1520) Sub-Stream : 25fps (640 × 480) Third Stream : 25fps (1280 × 720)
Image Enhancement settings	
ROI	1 fixed region for main stream and sub-stream
Backlight Compensation (BLC)	Required
Highlight Compensation (HLC)	Required
Digital Noise Reduction (DNR)	3D DNR
Wide Dynamic Range (WDR)	True WDR 120dB
Network and Communication	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Network Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP™, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Interoperability	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 6 channels
User Access	Up to 32 users
Reset Switch	Required
Local Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm feature	Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error
General	
Smart Features	Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, Scene change detection, audio exception detection, Face Detection
Operating Conditions	(-30 °C to +60 °C Humidity 95% or less (non-condensing))
Power Supply	12 VDC ± 25%, Φ 5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption and Current	12 VDC, 0.5A, max. 6W PoE (802.3af, 37V to 57V), 0.2A to 0.1A, max. 7.5W
Protection Level	IP67, IK10
Material	Metal
Certificate	CE,FCC,UL,ROHS, REACH,BIS
Product Warranty	Minimum 2 years
Make	This product shall be manufactured by a manufacturer whose quality system is in compliance with the ISO-9001

Minimum required specifications for 32 Channel NVR*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Specification
Video/Audio Input	
IP video input	32-ch Up to 12 MP resolution
Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Network	
Incoming bandwidth	256 Mbps
Outgoing bandwidth	256 Mbps
Remote connection	128
Video/Audio output	
Output Interface	Should support 1-ch HDMI, 1-ch VGA
Video Display Split	1/4/8/9/16/25/36
Recording resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
HDMI output resolution	4K(3840 × 2160)/60Hz, 4K(3840 × 2160)/30Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Decoding	
Decoding format	H.265/H.265+/H.264/H.264+/MPEG4/MJPEG
Live view/Playback Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	32-ch
Rate recording frame rate	4-ch @4K or 32-ch @1080p – 30fps
Network management	
Network Protocols	IPV4 and IPV6, TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS, ONVIF, DYNDNS, NO-IP, FTP, IP filter, HTTP, RTSP, search IP, UDP, PPPoE.
Interoperability	ONVIF
Hard disk (Storage)	
SATA	Minimum 4 SATA interfaces
Capacity	Up to 6TB capacity for each HDD
External interfaces	
Network interface	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface, with the possibility to have redundancy networking.
Serial interface	1 RS-485 (half-duplex), 1 RS-232
USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0, backup of the image by HD external and drive DVD-RW etc
Alarm in/out	16/4
General	
Power supply	100 to 240 VAC with 60hz
Power	≤80 W
Consumption (without hard disk)	≤20 W
Working temperature	-10 to +55° C (+14 to +131° F)
Working humidity	10 to 90 %
Certificate	CE,FCC,UL,ROHS, REACH,BIS
Product Warranty	Minimum 2 years
Make	This product shall be manufactured by a manufacturer whose quality system is in compliance with the ISO-9001

Minimum required specifications for 16 Port POE Switch*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Specification
Network Ports	16 Gigabit Ethernet RJ-45 Copper ports(10M/100M/1G)-1000BASE-T
SFP Uplink	2 ports
PoE/PoE+ Ports	16 PoE+
802.3af	Ports 1-16
802.3at	Ports 1-16
PoE Max Power Per Port	Up to 15.4w for 802.3af and 30W for 802.3at
Power Supply Supported	External Input 54V 3.7A (200W) Input 54V 2.4A (130W) Input 54V 1.66A (90W)
Bandwidth	32Gbps
Buffer Size	1MB
Port loop guard	Supported
Store-and-forward	Supported
MAC entries	4K or more
Energy Efficient Ethernet (IEEE 802.3az complaint)	Yes
Acoustic noise (ANSI-S10.12)	0 (fanless)
Total PoE Power Budget	Upto 76W
LED Per port	Speed, Link, Activity, PoE
Certificate	CE,FCC,UL (Certificates to be enclosed with technical bid)
Product Warranty	Standard Warranty of 1 year

Minimum required specifications for 5 KVA Online UPS*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Required Specifications
Configuration	5 KVA On-Line UPS System with Inbuilt Isolation Transformer. UPS Should have inbuilt battery cold start function, self-diagnosis function before start up
Technology	True On-Line Double Conversion UPS with IGBT technology.
Capacity & Output Power Factor	5KVA & 0.8
Input Voltage Range & Frequency	160-280 VAC @ 100% LOAD SINGLE PHASE (3 WIRE) & 50Hz ± 10%
Output Voltage & Frequency	220V/230V/240V ±1% (L+N+PE) & 50 Hz ±0.1%
Crest Factor & Efficiency	3:1 & Upto 93%
Required VAH	8000 VAH minimum , with SMF battery with single bank
Battery Type Required	Sealed Maintenance Free Batteries
Battery Housing	Complete with self standing closed MS Cubicle or cabinet must be provided by the vendor
Certification	The offered UPS OEM should have ISO 27001 Certification for the Information Security Management System
	The UPS OEM should be ISO 9001-2015, ISO 50001 , CE , ROsh certified
	Copies of the above certifications should be submitted with the technical Bid (compulsory)
After Sales Support & Manufacturer's Credibility	UPS OEM should Not be a history of blacklisted / debarred of business in India
	UPS OEM should have a dedicated PAN India Toll Free No. for service call logging & resolution.
	Warranty Required 3 years onsite for UPS & 2 years for battery.

Minimum required specifications for 6TB 24X7 Surveillance Specialized Storage*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Required Specifications
Performance	
Interface	SATA 6 Gb/s
Drive Bays Supported	Up to 16
Cameras Supported	Up to 64
Max. Sustained Transfer Rate OD (MB/s)	Upto 195MB/s
Cache (MB)	256 MB
Reliability/Data Integrity	
Load/Unload Cycles	300,000
Power-On Hours per Year (24x7)	8,760
Workload Rate Limit (WRL)	180
Warranty	3 Years
Power Management	
Average Operating Power (W)	Upto 9 W
Idling Average (W)	Upto 7.2 W
General	
Capacity	6TB
Operating Temperature	0 to 70 °C

Minimum required specifications for LED Commercial Display (16 x 7 operation)*(Technical Specs./datasheet/leaflet shall be submitted with technical bid)*

Parameter	Required Specifications
Screen Size	48" or more, Full HD
Operation	16 x 7
Resolution	1920x1080
Broad casting System	Digital
Audio	2 Ch 10W each
Jack Interface (side)	HDMI, USB (2.0), CI Slot
Jack Interface(rear)	HDMI , USB, RF In, AV In (Phone Jack Type), Digital Audio Out (Phone Jack Type), RGB In, RS-232C (Control & Service), RJ45 (SNMP & MHEG), External Speaker Out (Spk-out 1, 4W (Stereo, R: 2.0W, L: 2.0W, 8Ω))
Power Supply	AC 100 - 240 V 50/60 Hz
Warranty	Standard warranty

Minimum required specifications for UTP CAT6 cables

(Technical Specs./datasheet/leaflet shall be submitted with technical bid)

Parameter	Required Specifications
Type of Cable	Unshielded Twisted Pair (UTP) CAT 6 cable Pair-shielded 100 Ohm installation cable with overall braided screen, suitable for transmission frequencies of up to 600 MHz
Conductor	4 pair UTP armoured cable 23 AWG Solid bare Copper
Primary insulation	High Density polyethylene
Outer Sheath	FR-PVC Insulation thickness 0.2 mm nominal
Shielding	Screened to ensure protection against EMI and for cross talk compliance.
Application standard	ANSI/TIA-568-C.2 category 6 ISO 11801 Class E
Application	Indoor/outdoor installation
Standard	UL Listed, ETL Certified

Minimum required specifications for HDMI Extender over CAT6 Ethernet

(Technical Specs./datasheet/leaflet shall be submitted with technical bid)

Parameter	Required Specifications
Features	<ul style="list-style-type: none">✓ Uses single cat-6 cable up to 492ft (150m)✓ Support HDMI 1.3, Support HDCP. Support full 3D and 1080P✓ H.264 code transmission, transmission rate 8.1Mbps✓ Support point-to-point mode, one point-to-multi point mode and cascade connection mode✓ 802.3 Ethernet standard✓ Support IR remote control✓ The transmitter support HDMI loop-out function✓ The design of pure hardware, plug and play, no need for additional software
Specifications	<ul style="list-style-type: none">✓ HDTV Resolutions:480p,720p,1080p✓ Metal case and 24k gold plated shielding connectors✓ Audio: Sample rate:32kHz,44.1kHz and 48kHz code✓ IR remote control:38KHz;NEC✓ Power adapter:DC:5V/1A✓ The Max Power consumption HDMI sender:3W HDMI receiver:3W✓ Size(L-W-H)93*79*27mm✓ Weight:228g x 2✓ Operating Temperature/Humidity0°C-45°C/10%-80%RH(no condensation)✓ Storage Temperature/Humidity:-10°C-70°C/5%-90% RH(no condensation)
Package Contents	<ul style="list-style-type: none">✓ 1pcs x HDMI Transmitter✓ 1pcs x HDMI Receiver✓ 2pcs x 5V/1A Power Adapter✓ 1pair x IR cable✓ 1pcs x User's Manual.

Cable laying

Cable laying shall conform to BIS norms. For underground cables DWC conduits shall be used and in case of cables above ground PVC capping- casing to be used, as per BIS standards.

Earth Cable

All power equipments installed shall be earthed with 1 core 2 sq mm, multi strand, copper, PVC wire, PVC insulated unarmoured cable.

Rack features

Rack should be of specified OEM with robust aluminium extruded frame construction and full vented top cover with cable entry provision and gland plates on top and bottom cover.

Minimum Required Specifications for passive Devices

Passive Materials, Racks and Other materials such as Media Converter, HDMI Splitter, HDMI Extender, HDMI cables and RJ45 Connectors electrical wires must be from reputed brands.

Financial Bid

(On the letter head of the Firm/Agency)

S.L. No.	ITEMS	Qty.	Unit	Make	Unit Price (Rs.)	Total Without Tax (Rs.)	Tax %	Tax Amount (Rs)	Total with Tax (Rs.)
1	4 Mega Pixels IP Dome Camera	28	Nos.						
2	4 Mega Pixels IP Bullet Camera	4	Nos.						
3	32 Channel Network Video Recorder (NVR)	1	Nos.						
4	16 Port Gigabit PoE+ switch with 2 SFP uplink	9	Nos.						
5	6TB SATA 24X7 Surveillance Specialized HDD	4	Nos.						
6	1000BaseT to 1000BaseLx (10Km) Single mode Media converter (Branded)	6	Nos.						
7	5 KVA Online UPS with 8000 VAH	1	Nos.						
8	48" or more LED Commercial Display (16 x 7 operation)	2	Nos.						
9	4 pair CAT6 UTP cable 305M	3	Box						
10	RJ 45 Connectors for CAT6 termination (100)	1	Box						
11	17U Floor standing Rack with all accessories for NVR, switches and passive components	1	Nos.						
12	6U wall mount rack with all accessories for switches and passive components	2	Nos.						
13	3 core 2.5mm branded electrical cable	300	Mtrs.						
14	Cat6 Patch cords 1 mtr. (Branded)	40	Nos.						
15	Single Port Cat6 UTP I/O with face plate & SMB	50	Nos.						
16	CAT6 24 Port patch panel-Loaded	2	Nos.						
17	Single Mode SC-SC Fiber Optic Duplex Patch cord 3Mtr length	4	Nos.						
18	6AMP switch & 3 pin socket	9	Nos.						
19	HDMI Cable Full HD 5 Meter (Branded)	3	Nos.						
20	HDMI Extender Over UTP CAT6, Upto 120 Mtr. (Transmitter & Receiver with power adapters) (Branded)	2	Pairs						
21	HDMI Splitter 1 IN 4 OUT Full HD 1080P for LED Commercial Display (Branded)	2	Nos.						
22	Installation & Configuration Charges (Laying of UTP, Electrical Cables through Conduit, Fixing of Camera, Racks, UPS, Configuration of Camera, NVR Etc, Documentation)								
Grand Total									

Signature:

Name:

Designation:

ANNEXURE-II
VENDOR PROFILE

1	Name of the Firm/Company	
2	Type of the Organisation (whether Sole Proprietorship, Partnership, Private Limited or Co-operative body, etc.)	
3	Name of the Proprietor/Partner/Directors of the Organisation/Firm:	
4	Registration details	
5	GST Registration No.	
6	PAN details	
7	Year Established	
8	Address of office through which the proposed work of the APSC will be handled and the name and designation of the Officer-in-charge	
9	Contact Number	
10	e-mail ID	
11	Website	
12	No. of full time Tech. personnel currently on roll	
13	No. of years of Proven experience of providing similar Services	
14	Various Certifications (ISO Certification/Six Sigma/ Nasscom/DOT Registered)	

Date:

Place

Signature:

Name:

Designation:

Note: Audited Balance Sheet and Profit and Loss Account for past three years should be attached separately.

ANNEXURE-III

MANUFACTURERS AUTHORIZATION FORM

Ref No:

Dated:

To
The Secretary
Assam Public Service Commission
Jawahar Nagar, Khanapara
Guwahati-781022

Reference: Tender No..... Dated due on.....

Dear Sir,

We..... the Manufacturers of.....

..... having manufacturing unit at

..... (Address of the factory) do hereby authorize M/s.....

..... (Name and Address of dealer) to submit a bid, and subsequently negotiate and sign

the contract with you against the above tender.

We hereby extend our full guarantee, warranty and support and also in meeting warranty obligations by providing necessary spares in time for the goods & services offered by the above dealer against this tender.

Yours faithfully

(Name)

(Name of the manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having a power of attorney to bind the manufacturer. The bidder in its bid should include it.

ANNEXURE-IV

DECLARATION

I/We having our office as mentioned below and declare that I/we have never been blacklisted by any State Government/Central Government or any State/Central PSU.

Signature:

Name:

Designation:

Name of the Agency:

Address of the bidder:

Date:

Place:

ANNEXURE-V

TURN OVER DETAILS

As per the tender eligibility criteria, the sales turn-over should not be less than Rs. 25 Lakhs per annum in the past three years. These turnover details will have to be substantiated with the appropriate documentary evidences duly enclosed.

The last three years sales turn-over details are furnished as follows.

Name of the Company / Firm:

S.L. No.	Financial Year	Turnover (Rs. In Lakhs)
1	2016-2017	
2	2017-2018	
3	2018-2019	

Proof of the above sales turn-over details should be furnished in the form of Audited Annual Accounts of the bidder.

ANNEXURE-VI

WORK EXPERIENCES

List of important Projects executed by the company/firm (only those projects that meets the requirements of Pre-Qualification criteria mentioned)

Sr. No.	Name & Location of work	Cost of work	Name of owner or organization	Full address	Name of the contact person from owner's side for whom work was executed	Contact no. of the contact person
1						
2						
3						
4						
5						

Signature of Bidder

Name: _____