

ANNEXURE B: DETAILED TECHNICAL SPECIFICATIONS

A. High Resolution, Fixed lens, IP, IR Bullet Camera With true Day/ Night function, with motion detection

2 MP OUTDOOR NETWORK D/N IP IR BULLET CAMERA		Yes / NO	Remarks
Video standards	H.265 / MPEG4 / MJPEG		
Sensor	1/3 inch HD resolution CMOS		
Scanning	Progressive Scan system		
System Compatibility	ONVIF		
Resolution	1980x 1080 P		
Signal Stream	Dual Stream		
Lens	2.8 ~ 12mm		
Minimum Illumination	0.01 lux@F1.2;		
	0 lux with IR		
IR Cut Filter	Yes		
True Wide Dynamic Range	120 db		
Digital noise reduction	3D DNR		
Day & night	ICR		
AGC	Yes		
BLC/HLC	Yes		
Iris control	DC drive		
IR Range	Up to 30m or more		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP,		
	DNS, DDNS, RTP, RTSP, RTCP, PPPoE,		
	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X,		
	QoS, IPv6,		
Ethernet	1 RJ45 10M / 100M Ethernet port		
Input voltage	12 VDC ± 10% or PoE, IEEE 802.3 af		
Operating Temp.	-10°C ~ 55°C		
Operating Humidity	Humidity 95% or less (non-condensing)		
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception, scene change, video loss		
Security	Watermark, User authentication, IP address Filtering, anonymous access.		
Housing & Mount	IP67 IK10 outdoor standard		
Certification	FCC & CE		
MAC IP Address	Should be registered in OEM's name		
Make	Samsung/ Cp Plus/ Hikvision/ Dahua		

B. High Resolution, fixed lens, IP, IR Dome Camera With true Day/ Night function, with motion detection

2 MP OUTDOOR / INDOOR NETWORK D/N IP IR DOME CAMERA		Yes/ No	Remark, if any
Video standards	H.265 / MPEG4 / MJPEG		
Sensor	1/3 inch HD resolution CMOS		
Scanning	Progressive Scan system		
System Compatibility	ONVIF		
Resolution	1980*1080P		
Signal Stream	Dual Stream		
Lens	2.8 ~ 12mm		
Minimum Illumination	0.01 lux@F1.2;		
	0 lux with IR		
IR Cut Filter	Yes		
True Wide Dynamic Range	120 db		
Digital noise reduction	3D DNR		
Day & night	ICR		
AGC	Yes		
BLC/HLC	Yes		
Iris control	DC drive		
Intelligent Functions	Video Face Detection, Alarm trigger for Video loss detection, line crossing, Intrusion detection		
IR Range	Up to 30m or more		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP,		
	DNS, DDNS, RTP, RTSP, RTCP, PPPoE,		
	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X,		
	QoS, IPv6,		
Ethernet	1 RJ45 10M / 100M Ethernet port		
Input voltage	12 VDC ± 10% or PoE, IEEE 802.3 at		
Operating Temp.	-10°C ~ 55°C		
Operating Humidity	Humidity 95% or less (non-condensing)		
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception, video loss, scene change detection		
Security	Watermark, User authentication, IP address filtering, anonymous access.		
Housing & Mount	IP67 IK10 outdoor standard		
Certification	FCC & CE		
MAC IP Address	Should be registered in OEM's name		
Make	Samsung/ Cp Plus/ Hikvision/ Dahua		

C. NVR: Network Video Recorder

Parameters	Specifications	4 Channel	8 Channel	16 Channel
		Yes/ NO	Yes/ NO	Yes/ NO
Video Input	4 Channels- 40 MBPS of incoming bandwidth 8 Channels – 80 MBPS of incoming bandwidth 16 Channels 200 MBPS of incoming bandwidth			
Video Output	VGA & HDMI @ 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz			
Operating System	Linux/Windows			
Hard disk Interface	For 4 channel: SATA supported with min. 2 TB capacity For 8 channel: SATA supported with min. 4 TB capacity For 16 channel: SATA supported with min. 6 TB capacity			
TCP/IP	TCP/IP			
USB Interface	2 USB			
Network	1, RJ45, 10M/100M/1000M Ethernet Interface			
PoE External	4/8/16 POE SEMITCH 10/100			
Remote Interface	Support			
Video Compression	H.265			
Video Decoding	PAL & NTSC			
Preview Resolution	2 MP or Full HD			
Preview	1, 4, 8, 16 pictures preview			
Third Party Cameras	Yes			
Electronic amplification (Digital Zoom)	Supports multiple step digital zoom in all camera			
Time display	Preview time display			
Channel status	Recording Icon, Motion detection, Alarm icon			
Video sequencing	Support single or multiple channel video sequence			
Recording Mode	Manual, scheduled, Motion based single setting applicable for all Channels			
Pre-record	5 - 30 sec			
Watermarking	Shows Channel number with date and time stamp			
Search Mode	Channel, Date & time			
Playback	4/ 8/ 16 channel synchronous playback			
Audio Video Playback	Support			
Backup Mode	USB Flash drive / Network download			
Playback Remote	Support			
Remote setting	Support			
Synchronous Video / Audio	YES			

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Mobile phone surveillance (Free with the product)	Apps for android, iphone			
Virtual Alarm Interface	Video loss, motion detection, hard disk failure, Net disconnection, Disk NO Space, NO Disk			
Alarm Output	Buzzer, Hardware alarm output, POP up message			
Motion Detection	Self-defined Zones, Sensitivity setting for each channel			
Firmware Upgrade	USB & Internet			
Auto restart support	YES			
Log management	User, Operation, Storage & Alarm based logs will be stored			
Operating temp	- 10 to 50 degree Celsius			
Intelligent Video Functions	Face Detection, Alarm trigger for Video quality detection, line crossing, Intrusion detection			
Operating humidity	10 % to 90 %			
human-computer interface	Mouse, Soft Keyboard , GUI, Remote control			
Certification	CE & FCC			
Make	Samsung/ Cp Plus/ Hikvision/ Dahua			

D. LCD Monitor

		Yes/ No	Remark, if any
The Color display shall be suitable with the standards of the selected cameras. It shall be solid state and modular in design. It shall provide a bright, clear and well-defined picture display on the screen.			
All controls for brightness, contrast etc. shall be provided on the front panel for readily adjusting the levels of the video signal. The rear panel shall be provided with input and output connectors for coupling the video output to other Monitors.			
The video monitor installed shall be of 18.5" and 24 inch size LCD.			
Video	PAL / NTSC color composite 1.0Vp-p		
LCD	17 diagonal, 0.66 mm Stripe pitch		
Resolution	1366 / 768 pixels		
Viewing angle	140 degree horizontal,130 degree vertical		
Power Input	90 – 260 VAC, 50/60 Hz		
Consumption	40 Watts		
Certification	ISI/CE /FCC Certificate or any other standard certificate in the field		
Make	HP/Samsung/ LG / DELL		

E. CABLES:

CAT 6 Ethernet cables

Make: Polycab/ Sterlite/ Finolex/ Havells/ RR Kabel/ DLink/ Hikvision/CP Plus

Certification: ISO certified

F. HARD DISK:

Hard disk should be of makes Seagate only. And should be capable of taking minimum 30 days recording.

I/ We have read and understood all the terms & conditions including the eligibility conditions, instruction for submission of tender forms, product specifications, etc. and all the information furnished by me hereunder is correct to the best of my knowledge and belief. I/We agree that I / we have no objection if enquiries are made about the work listed by me / us in the forms submitted.

I / We hereby agree to all the Terms & Conditions mentioned above without any condition whatsoever. I / We also further agree that all the deficiencies will attract penalty and the recovery will be affected without any notice to me/us.

Signature of Bidder/ Vendor with Seal

Date:

Place:

ANNEXURE C: FINANCIAL BID

A. PRICE COMPOSITION

The interested firms must visit the sites as listed in Annexure- D and quote the price in Indian rupees and inclusive of following:

- a. Cost of the 'CCTV System' with accessories, etc. F.O.R. destination: The rates quoted should be inclusive of all taxes and all charges for door delivery and installation etc., **but exclusive of GST**. No separate payment of whatsoever nature will be made other than the rates quoted. The Bidders shall be responsible to pay all statutory levies imposed by the State and Central Government such as Income Tax, Excise Duty, Octroi etc. and the rates quoted in the tender shall allow for the same. No reimbursement whatsoever shall be made to the Bidders on account of any taxes or duties or increase in the taxes/duties by act of any legislation.
- b. Two-year comprehensive onsite warranty CAMC covering all parts, service, and visits to the site.
- c. Post warranty comprehensive AMC for 5 years after expiry of one year or warranty period whichever is later covering the entire CCTV System encompassing all software/hardware items, accessories, spares and consumables. The rates for Comprehensive CAMC would be subject to terms & conditions mentioned in Clause 5 on page- 13.
- d. The quantities of each item mentioned herein are only indicative in nature and the actual requirement may vary during installation.
- e. The payment of cabling, apart from other items, will be on the basis of actual usage/ installation at each location.
- f. Rates quoted for Purchase should be valid for 1 year from the date of finalization of Rates & Issuance of approval letter. Within the validity period of one year, the Vendor is supposed to consider for supply of approved products on the same approved rate in case of further requirements intimated by LIC of India, **Jabalpur**, Divisional Office.
- g. Rates quoted for Comprehensive AMC should be valid for 5 years from the date of expiry of defect liability period.
- h. All the above compositions taken together will be the basis for deciding L1bidder.

B. NO PRICE VARIATIONS

The Financial Bid shall be on a fixed price basis. No upward revision in the price will be considered since only basic price of items is being called for. For changes in GST, the vendor would be responsible for quoting the correct and current rate on their invoice.

C. DECISION ON L1

1. The tender would be decided in favor of the vendor who has minimum rates as per row C below, i.e. the Grand Total of A + B and would be referred to as L1 from here- on.
2. If rates are found to be same for more than 1 vendors the tender shall be decided in favor of the firm with higher average turnover calculated for the financial years: 2015- 16, 2016- 17 & 2017- 18.

PRICE BID PART- A: SITC of CCTV systems

S No	Description	Unit	Quantity	Unit Rate (Excl. GST)	Total
1	SITC of 30fps, 2 MP, IP IR, fixed lens, Dome Camera as per specification in Annexure- B, Table- B	No	41	Figures:..... Words:.....	
2	SITC of 30fps, 2 MP, IP IR, fixed lens, Bullet Camera as per specification in Annexure- B, Table- A	No	22	Figures:..... Words:.....	
3	SITC of 16 Channel NVR as per specification in Annexure- B, Table- C	No	1	Figures:..... Words:.....	
4	SITC of 8 Channel NVR as per specification in Annexure- B, Table- C	No	1	Figures:..... Words:.....	
5	SITC of 4 Channel NVR as per specification in Annexure- B, Table- C	No	13	Figures:..... Words:.....	
6	Supply, Installation, Testing and Commissioning of 4 U rack including proving and fixing of trays and fixing of apparatus / NVRs inside the rack as directed (D-link, Dgsol, prolive)	No	1	Figures:..... Words:.....	
7	Supply, Installation, Testing and Commissioning of 2 U rack including proving and fixing of trays and fixing of apparatus / NVRs inside the rack as directed (D-link, Dgsol, prolive)	No	14	Figures:..... Words:.....	
8	SITC of 18.5" LED Monitor with HDMI port HP/Samsung/ LG / DELL	No	14	Figures:..... Words:.....	
09	SITC of 24" LED Monitor with HDMI port HP/Samsung/ LG / DELL	No	01	Figures:..... Words:.....	
10	SITC of SATA supported Hard Disk Drive SEGATE SURVILLANCE 2 TB	No	13	Figures:..... Words:.....	
11	SITC of SATA supported Hard Disk Drive SEGATE SURVILLANCE 4 TB	No	01	Figures:..... Words:.....	
12	SITC of SATA supported Hard Disk Drive SEGATE SURVILLANCE 6 TB	No	01	Figures:..... Words:.....	

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13	4 POE SEMITCH 10/100	No	13	Figures:..... Words:.....	
14	8 POE SEMITCH 10/100	No	1	Figures:..... Words:.....	
15	16 POE SEMITCH 10/100	No	1	Figures:..... Words:.....	
16	Supply and laying of CAT 6 (Unarmored) Cable suitable for CCTV installation with termination on either side for video transmission to be laid down through existing PVC Conduit as per actual requirements.	RM	As per actual usage	Figures:..... Words:.....	
17	Supply and laying of Heavy duty medium class 19 mm Dia FRLS PVC conduit .fixing necessary saddle etc. as per actual requirements.	RM	As per actual usage	Figures:..... Words:.....	
18	Supply and fixing of modular 3 nos switches (5/6A) and 3 nos. 5pin(5/6A) socket including modular plate & PVC box with necessary connection complete in all respect.	SET	15	Figures:..... Words:.....	
GRAND TOTAL (A)					

PRICE BID PART- B: CAMC after 2- yr of warranty

S No	Description	Unit	Quant ity	Unit Rate (Excl. GST)	Total
1	CAMC charges of the systems for 3rd year of installation	Per office Per Year		Figures:..... Words:.....	
2	CAMC charges of the systems for 4th year of installation	Per office Per Year		Figures:..... Words:.....	
3	CAMC charges of the systems for 5 th year of installation	Per office Per Year		Figures:..... Words:.....	
4	CAMC charges of the systems for 6 th year of installation	Per office Per Year		Figures:..... Words:.....	
5	CAMC charges of the systems for 7 th year of installation	Per office Per Year		Figures:..... Words:.....	
GRAND TOTAL (B)					

C= TOTAL of A & B= A+B=