

**Tender Document for
IP Based Video Surveillance System (CCTV)
at Information Kerala Mission**

Tender No. IKM/TP/03/2021

Contents

Tender Notice.....	2
Terms and Conditions	3
Special Condition.....	5
Eligibility Criteria	5
Scope of Work.....	5
Specification	6
Network Video Recorder.....	6
IP Camera – Dome Network Camera	7
IP Camera – Bullet Network Camera.....	8
Bill of Material.....	8
Part A. Technical Bid.....	10
Annexure – I : Technical Compliance	11
IP Camera – Bullet Network Camera.....	13
IP Camera – Bullet Network Camera.....	13
Part B. Financial Bid.....	14

Information Kerala Mission

(Local Self Government Department, Government of Kerala)
Swaraj Bhavan, Ground Floor, Nandancode, Kawdiar PO,
Thiruvananthapuram, Kerala 695003
www.ikm.gov.in

Tender Notice

Information Kerala Mission (IKM) invites bids for Supply, Installation, Testing and Commissioning of IP based Video Surveillance System (CCTV) at its office at Swaraj Bhavan, Nanthancode, Thiruvananthapuram in two-Bid System.

- Tender No.& Date : **IKM/TP/03/2021 dated 17/02/2021**
- Reference No. : **IKM/E1/429/2021**
- Description : Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Information Kerala Mission
- Due Date : **02/03/2021, 3 PM**
- Date of Opening : **03/03/2021, 11AM**
- Venue of Opening : Information Kerala Mission,
Swaraj Bhavan, Ground Floor,
Nandancode, Kowdiar PO,
Thiruvananthapuram, Kerala - 695 003
- Tender Fee : **Rs 1344/-** (Rupees One thousand three hundred and forty four only)
(Non-transferable and non-refundable)
- Earnest Money Deposit (EMD) : **Rs 4000/-** (Rupees Four thousand only)

Yours sincerely,



Executive Director

Terms and Conditions

1. The sealed bids are to be submitted in prescribed format on your business letter head duly stamped and signed and dated on each page of Part 'A','B' & 'C' as their unconditional acceptance to the terms prescribed by the Information Kerala Mission, details/supporting documents wherever applicable, if attached with the bids should be duly authenticated by the vendor/s. No overwriting shall be accepted unless authenticated with full signature of the vendor/s.
2. Each quotation shall submit the offer in two separate sealed envelopes, Part A& Part B. Envelop No. 1 (mark the envelope as "No.1 Part A - Technical Bid"), Envelop No. 2 will contain only Part 'B' (mark the Envelope as "No.2 Part B - Financial Bid"). Both the sealed envelopes bearing No. 1 and 2 are to be put in the main envelop i.e. Envelop No.3.
3. The bids duly super scribed "Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Information Kerala Mission", The bids should be addressed by name to The Executive Director and sent at the office address of Information Kerala Mission address given below either by registered post/speed post/or by dropping in the tender box placed at IKM Headquarter & should reach on or before the last date and time.

Address :

The Executive Director,
Information Kerala Mission,
Swaraj Bhavan, Ground Floor,
Nandancode, Kawdiar PO,
Thiruvananthapuram, Kerala 695003
Ph: 0471 2773100

4. Bids received after the stipulated date and time shall not be entertained. IKM shall not be liable for any postal delays what so ever and quotation received after the stipulated time/date are liable to be rejected summarily without giving any reason.
5. The Technical Bid shall be opened on the scheduled time at the office of the IKM in the presence those tenderer(s) who wish to be present. No separate communication will be sent in this regard. In the event of due date being a closed holiday or declared Holiday for the State Government offices, the due date for opening of the bids will be the following working day at the appointed date, time & venue.
6. IKM shall have the right to assess the competencies and capabilities of the Tenderer by going through the credentials given in the Technical Bid and on the basis of such credentials, IKM may reject the candidature of the Tenderer without assigning any reason. In such case(s) the Financial Bid shall not be opened for that particular Tenderer. The Financial Bid of only those parties who qualify in the technical scrutiny shall be opened and time and date for opening the financial bid shall be intimated separately.

7. Prices quoted should be FOR IKM premises Headquarters at Thiruvananthapuram and should be inclusive of all charges.
8. Though IKM prefers to deal with manufacturers/principal manufacturers directly, it may also consider the offers received through its authorized channel partners, provided the principal authorizes the said channel partner in this regard.
9. Delivery and installation should be completed within Four week from the date of the confirmed purchase order.
10. The Tender shall be valid for at least 60 days from the date of opening of quotations.
11. The cost of tender form/Earnest Money Deposit (EMD) will be received in the form of Demand Draft in favour of Executive Director, Information Kerala Mission, payable at Thiruvananthapuram. This has to be included in the Envelop No. 1 (Part A - Technical Bid). The EMD submitted by unsuccessful bidders will be returned after finalisation of the tender process. The details regarding tender fee and EMD are included in the tender notice.
12. The firms who have been exempted from paying EMD and tender fee has to submit the necessary supporting documents along with the Technical Bid.
13. The payment terms are 30 days for 100% payment upon successful installation, commissioning and acceptance of the supplied material. Vendor will be fully responsible for comprehensive technical support free of charge during the warranty period and in case of default, IKM will have the right to arrange maintenance at vendor's risk and cost.
14. All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the arbitrator to be appointed by the Executive Director of the Information Kerala Mission. The award of the sole arbitrator shall be final. Place of such arbitration proceedings shall be at Thiruvananthapuram
15. The IKM reserves the right to accept or reject any or all quotations including the lowest quotation/s without assigning any reason at its sole discretion and the decision of IKM will be final and binding on all concerned.
16. The quantities indicated in BOQ are tentative and may be increased at the sole discretion of IKM and the vendor shall have not right to claim any minimum/definite volume of business.
17. For any technical details/clarifications, Purchase Officer, IKM would be the point of contact.

Special Condition

- Completion Certificate: Work Completion certificate shall be issued only after completion of work in all respect as per RFP and to the entire satisfaction of IKM.
- 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 IKM.
- Warranty Period: All the equipment, active and passive components supplied against this RFP shall have warranty for a period of 3 (Three) years from the date of installation and commissioning.
- 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 IKM.
- The vendor will liaison on behalf of IKM, with other different OEMs for repairing or replacing of equipment(s) and all other accessories during warranty period.
- Annual Maintenance of the entire system after the warranty will be undertake as per the terms and conditions mentioned in the tender and any other condition agreed upon as per the terms and conditions of IKM.
- Successful bidder shall deposit 5% of the total value of the order towards security deposit in the form of Demand Draft/Bank Guarantee in favour of "Executive Director, Information Kerala Mission" payable at Thiruvananthapuram and execute an agreement in stamp paper worth Rs.200/- within 7 days from the date of receipt of this order. The security deposit will be released within three months after the expiry of the warranty period.

Eligibility Criteria

- The Bidder should be OEM or Authorized Dealer/Distributor/System Integrator/ Company/Firm of the OEM of the offered product.
- Bidder should have experience of having successfully completed similar project during the last 3 years.
- Any Government / Government agency / Banks / Financial Institutions in India should not have blacklisted the Bidder during the last 5 years. Self-declaration to that effect should be submitted along with the technical bid.
- The firm must possess valid GST/Sales Tax Registration Certificate. (attested copies of all the above certificates should be submitted along with the proposal).
- Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above.

Scope of Work

- Installation of CCTV cameras at preferred locations covering the whole common area including entrance to floors, corridor and sections.
- Supply, installation, testing and commissioning of items mentioned in BoM, F.O.R destination.

- All the products and their warranty certificates shall be issued in the name of Information Kerala Mission
- All cameras should be IP based.
- The IP Based Video Surveillance system shall be a Hybrid System with distributed architecture having control station at the Server Room/Control Office & Viewing facility at the Director's cabin and Reception.
- A network, comprising a 24-port PoE switch connected with CAT6, shall be laid for transmission of signal from cameras to the Control Stations. The Main Control Station shall for Video Storage and further Control. The Sub-Control Station at Director's room and Reception shall have the TV for monitoring the Video only.
- The proposed Solution should allow IKM officials to locally and centrally monitor its facilities from a remote location on a Portable/Fixed personal computer monitor.
- The Solution should capture, store, and analyse digital video images to enable central monitoring, increase operational efficiency, reduce liability, minimize risk and secure people & property.
- After commissioning the Video surveillance system, the same shall be demonstrated for all its capabilities to the relevant user department to make them familiar with the system.
- Once the Order is placed, it will be the vendors' responsibility to make the project functional. Any additional cost incurred for completing the project and for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.
- The CCTVs Surveillance System need to be functional on 24x7 basic i.e. 24 hours all the days and need to have at least 30 days data storage capacity for all cameras.

Specification

Network Video Recorder

Feature	Specification
IP Camera Input	16 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Interface	HDMI, VGA
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280X720, 1024X768
On Screen Display	Camera title, Time, Camera lock, Motion detection, Recording
Compression	Smart H.265+/H.265/Smart H.264+/H.264
Recording Resolution	12MP to HD
Bandwidth	320 Mbps or higher (20Mbps or higher per channel)
Record Mode	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering

Feature	Specification
Alarm Input/Output	16 Channel/6 Channel
Synchronous Playback	16 Channel
Search Mode	Time, Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/eSATA Device
Network interface	2 RJ-45 Ports (10/100/1000Mbps)
Network protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP
Max. User Access	128 users
Interoperability	ONVIF 2.4
Internal HDD	4 SATA III Ports, Up to 6TB capacity for each HDD
Ports	3 USB Ports (USB 3.0, 2.0), eSATA, RS232, RS485
Installation	Rack-mounted
Certifications	CE, FCC, UL
Software	Necessary software to be included
Preferred make	Dahua, Hikvision, Panasonic, Bosch

IP Camera – Dome Network Camera

Feature	Specification
Image Sensor	1/3" 4Megapixel progressive CMOS
Scanning System	Progressive
S/N Ratio	More than 50dB
IR Distance	Distance up to 30m
Focal Length	3.6 mm
Lens	3.6 mm
Compression	Smart H.265+/H.265
Resolution	Maximum 4M(2688x1520)
Ethernet	RJ-45 (10/100Base-T)
Noise Reduction	3D DNR
Streaming Method	Unicast / Multicast
Management Software	Should be provided
Power Compatibility	PoE Should be supported
Certifications	CE,UL, FCC
Preferred make	Dahua, Hikvision, Panasonic, Bosch

IP Camera – Bullet Network Camera

Feature	Specification
Image Sensor	1/3” 4Megapixel progressive CMOS
Scanning System	Progressive
S/N Ratio	More than50dB
IR Distance	Distance up to 30m
Focal Length	3.6 mm
Lens	3.6mm
Compression	Smart H.265+/H.265
Resolution	Maximum 4M (2688x1520)
Noise Reduction	3D DNR
Ethernet	RJ-45 (10/100Base-T)
Streaming Method	Unicast / Multicast
Management Software	Should be provided
Power compatibility	PoE Should be supported
Certifications	CE,UL, FCC
Preferred make	Dahua, Hikvision, Panasonic, Bosch

IP Camera and Network Video Recorder should be on same make

Bill of Material

SI No	Item	Qty	Unit
1	IP Based Dome Camera as per specification	6	Nos
2	IP Based indoor Bullet Camera as per specification	10	Nos
3	16 Channel Network Video Recorder as per Specification	1	Nos
4	6 TB Surveillance hard disk	2	Nos
5	24 Port PoE (10/100/1000) managed switch	1	No
6	55 inch or higher 4K LED TV, (Smart TV) with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.	1	Nos
7	40 inch or higher FullHD LED TV, designed for CCTV (24X7 operation/ Commercial TV) 1920x1080 resolution or higher with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.	1	Nos
8	21 inch or higher TFT LED Digital colour Monitor having Resolution 1600X900 or higher, 16:9 Aspect Ratio, HDMI and VGA input.	1	Nos
9	Supply and fixing of 19", 9U, 600x550mm Network Rack with ACDB 6 port, Mounting Kit, cable manager, 4 nos fan for cooling rack, Cable Manager, Cable tray, PDU-6 nos, Front & Back Door etc with extra lock and key. Preferred make :Netrack, Valrack, President	1	Nos
10	Supply and laying of CAT 6 UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	900	Mtr

SI No	Item	Qty	Unit
11	Supply and fixing of 25 mm medium gauge PVC ivory conduit/loval/capping casing with special confirming to ISI standard on surface using suitable size fixtures spacing ot exceeding 50 cm including making good the damage colour washing etc as required - Approximate length.	900	Mtr
12	Supply and Installation of 15Mtr HDMI cable high quality	1	No
13	Accessories, connectors, etc (if any)	1	Lumpsum
14	Testing, Installation charge	1	Lumpsum

Part A. Technical Bid

INFORMATION KERALA MISSION

Thiruvananthapuram, Kerala 695003

Profile of the Bidder

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Information Kerala Mission

1.	Name and complete address of the Tended Company	
2.	Tele/Fax/E-mail/Cell No. of the Tended Company	
3.	Contact person's name & designation and telephone No.	
4.	Details of registered office, if any, along with contact person's name and tele. No.	
5.	Legal status i.e. public / private limited / any other along with documentary evidence.	
7.	Income-Tax registration number along with documentary evidence.	
8.	GSTIN number along with documentary evidence.	
9.	List of existing major clients to whom IP based network surveillance implemented in last 2 years, installed and implemented with details of company, value of business, concerned person name & his telephone no. (Please attach full details)	

Date

Name and Signature of Bidder
with Corporate Seal

Annexure – I : Technical Compliance

Technical compliance to be filled in the letterhead of the bidder and duly signed by the signing authority. To be submitted along with the technical bid.

Network Video Recorder

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
IP Camera Input	16 Channel		
Two-way Talk	1 Channel Input, 1 Channel Output, RCA		
Interface	HDMI, VGA		
Resolution	3840 × 2160, 1920 × 1080, 1280 × 1024, 1280X720, 1024X768		
On Screen Display	Camera title, Time, Camera lock, Motion detection, Recording		
Compression	Smart H.265+/H.265/Smart H.264+/H.264		
Recording Resolution	12MP to HD		
Bandwidth	320 Mbps or higher (20Mbps or higher per channel)		
Record Mode	Manual, Schedule (Regular, Motion Detection, Alarm, IVS), Stop		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering		
Alarm Input/ Output	16 Channel/6 Channel		
Synchronous Playback	16 Channel		
Search Mode	Time, Date, Alarm, MD and Exact Search (accurate to second)		
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom		
Backup Mode	USB Device/Network/eSATA Device		
Network interface	2 RJ-45 Ports (10/100/1000Mbps)		
Network protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP		
Max. User Access	128 users		
Interoperability	ONVIF 2.4		

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Internal HDD	4 SATA III Ports, Up to 6TB capacity for each HDD		
Ports	3 USB Ports (USB 3.0, 2.0), eSATA, RS232, RS485		
Installation	Rack-mounted		
Certifications	CE, FCC, UL		
Software	Necessary software to be included		
Preferred make	Dahua, Hikvision, Panasonic, Bosch or equivalent		

IP Camera – Dome Network Camera

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Image Sensor	1/3" 4Megapixel progressive CMOS		
Scanning System	Progressive		
S/N Ratio	More than 50dB		
IR Distance	Distance up to 30m		
Focal Length	3.6 mm		
Lens	3.6 mm		
Compression	Smart H.265+/H.265		
Resolution	Maximum 4M(2688x1520)		
Ethernet	RJ-45 (10/100Base-T)		
Noise Reduction	3D DNR		
Streaming Method	Unicast / Multicast		
Management Software	Should be provided		
Power Compatibility	PoE Should be supported		
Certifications	CE,UL, FCC		
Preferred make	Dahua, Hikvision, Panasonic, Bosch or equivalent		

IP Camera – Bullet Network Camera

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Image Sensor	1/3" 4Megapixel progressive CMOS		
Scanning System	Progressive		
S/N Ratio	More than50dB		
IR Distance	Distance up to 30m		
Focal Length	3.6 mm		
Lens	3.6mm		
Compression	Smart H.265+/H.265		
Resolution	Maximum 4M(2688x1520)		
Noise Reduction	3D DNR		
Ethernet	RJ-45 (10/100Base-T)		
Streaming Method	Unicast / Multicast		
Management Software	Should be provided		
Power compatibility	PoE Should be supported		
Certifications	CE,UL, FCC		
Preferred make	Dahua, Hikvision, Panasonic, Bosch or equivalent		

IP Camera – Bullet Network Camera

Make & Model :

Specification	Compliance (Yes/No)	Reason Deviation (if any)
55 inch or higher 4K LED TV, (Smart TV) with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.		
40 inch or higher FullHD LED TV, designed for CCTV (24X7 operation)/ Commercial TV, 1920x1080 resolution or higher with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.		

Part B. Financial Bid

INFORMATION KERALA MISSION

Thiruvananthapuram, Kerala 695003

PART B. FINANCIAL BID

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Information Kerala Mission

SI No	Item	Qty	Unit	Unit Rate	Amount (Rate x Qty)	Total Tax	Total Amount (Amount x Total tax)
1	IP Based Dome Camera as per specification	6	Nos				
2	IP Based indoor Bullet Camera as per specification	10	Nos				
3	16 Channel Network Video Recorder as per Specification	1	Nos				
4	6 TB Surveillance hard disk	2	Nos				
5	24 Port PoE (10/100/1000) managed switch	1	No				
6	55 inch or higher 4K LED TV, (Smart TV) with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.	1	Nos				
7	40 inch or higher FullHD LED TV, designed for CCTV (24X7 operation/ Commercial TV) 1920x1080 resolution or higher with wall mount kit and connecting accessories. Preferred make : LG, Sony, Samsung.	1	Nos				
8	21 inch or higher TFT LED Digital colour Monitor having Resolution 1600X900 or higher, 16:9 Aspect Ratio, HDMI and VGA input.	1	Nos				
9	Supply and fixing of 19", 9U, 600x550mm Network Rack with ACDB 6 port, Mounting Kit, cable manager, 4 nos fan for cooling rack, Cable Manager, Cable tray, PDU-6 nos, Front & Back Door etc with extra lock and key. Preferred make :Netrack, Valrack, President	1	Nos				
10	Supply and laying of CAT 6 UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	900	Mtr				

SI No	Item	Qty	Unit	Unit Rate	Amount (Rate x Qty)	Total Tax	Total Amount (Amount x Total tax)
11	Supply and fixing of 25 mm medium gauge PVC ivory conduit/loval/capping casing with special confirming to ISI standard on surface using suitable size fixtures spacing ot exceeding 50 cm including making good the damage colour washing etc as required - Approximate length.	900	Mtr				
12	Supply and Installation of 15Mtr HDMI cable high quality	1	No				
13	Accessories, connectors, etc (if any)	1	Lumpsu m				
14	Testing, Installation charge	1	Lumpsu m				
	Grand Total						

Date

Name and Signature of Bidder
with Corporate Seal