

File No.DSLR/1067/2020-B6

Tender Document for  
IP Based Video Surveillance System (CCTV)  
at Directorate of Survey and Land Records

Tender No. DSLR/6570/2018-B6(1)  
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**Directorate of Survey and Land Records**  
Survey Bhavan, Cotton Hill Road, Cotton Hill,  
Vazhuthacaud, Thiruvananthapuram-695014

[www.dslr.kerala.gov.in](http://www.dslr.kerala.gov.in)

**File No.DSLR/1067/2020-B6****Tender Notice**

Directorate of Survey and Land Records (DSLRL) invites bids for Supply, Installation, Testing and Commissioning of IP based Video Surveillance System (CCTV) at its office at Vazhuthacaud, Thiruvananthapuram in two-Bid System.

Tender No.& Date	:DSLRL/1067/2020-B6(1), 05/07/2021
Reference No.	:DSLRL/1067/2020-B6
Description	:Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Directorate of Survey and Land Records
Due Date	:21/07/2021, 5 pm
Date of Opening	:22/07/2021, 3 pm
Venue of Opening	:Directorate of Survey and Land Records Survey Bhavan, Cotton Hill Road, Cotton Hill, Vazhuthacaud, Thiruvananthapuram-695014
Tender Fee	:600/- (Non-transferable and non-refundable)
Earnest Money Deposit (EMD)	:3000/-
Pre Bid meeting	:12/07/2021, 12 pm, (through VC, VC Link- <a href="https://meet.google.com/aei-pnxa-maz">https://meet.google.com/aei-pnxa-maz</a> )

**Signature valid**

Digitally signed by R  
GIRIJANAS  
Date: 2021.07.05  
17:12:00  
Reason: Approved

**File No.DSLR/1067/2020-B6****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 Directorate of Survey and Land Records, 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 superscribed "Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Directorate of Survey and Land Records", The bids should be addressed by name to The Director and sent at the office address of Directorate of Survey and Land Records address given below either by registered post/speed post/or by dropping in the tender box placed at Survey Directorate, Vazhuthacaud, Thiruvananthapuram & should reach on or before the last date and time.

**Address :**

The Director,  
Directorate of Survey and Land Records,

Survey Bhavan, Cotton Hill Road, Cotton Hill,

Vazhuthacaud, Thiruvananthapuram-695014  
Ph: 0471 – 2337810

4. Bids received after the stipulated date and time shall not be entertained. DSLR 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 DSLR 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. DSLR 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, DSLR may reject the candidature of the Tenderer



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- 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 DSLR premises Headquarters at Thiruvananthapuram and should be inclusive of all charges.
  8. Though DSLR 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 weeks 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 tender.
  11. The payment will be made within 30 days, 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, DSLR will have the right to arrange maintenance at vendor's risk and cost.
  12. 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 Director of the Department of Survey and Land Records. The award of the sole arbitrator shall be final. Place of such arbitration proceedings shall be at Thiruvananthapuram
  13. The DSLR 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 DSLR will be final and binding on all concerned.
  14. The quantities indicated in BOQ are tentative and may be increased at the sole discretion of DSLR and the vendor shall have no right to claim any minimum/definite volume of business.
  15. For any technical details/clarifications, Purchase Officer, DSLR would be the point of contact.
  16. The amount of EMD to be furnished along with the tender is specified in the tender notification. Earnest money may be accepted Bank Drafts or Treasury Savings Bank Deposits or Government Promissory Notes or Bank Guarantee or National Savings Certificate.
  17. Amount of tender fee should be paid in treasury under the H/O '0029-00-800-92 other receipts' and receipt should be submitted along with the tender.

**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 DSLR.

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- 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 DSLR.
- There may be an increase or decrease of quantities. The evaluation would be based on the actual quantities.
- Length of cable and conduit mentioned is approximate. The payment shall be made on actuals only.
- 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 DSLR.
- The vendor will liaison on behalf of DSLR, with other different OEMs for repairing or replacing of equipment(s) and all other accessories during warranty period.
- Successful vendor will be liable to enter into AMC of the entire system after the warranty period as per the terms and conditions stipulated by Government from time to time.
- 5% of the total value will be deducted from the payment as security deposit and will be released within 3 months after the expiry of the warranty period. Successful bidder shall execute an agreement in stamp paper worth Rs.200/- (Specimen enclosed) within 7 days from the date of receipt of this order.

### 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 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 Director of Survey and Land Records, Department of Survey and Land Records, Government of Kerala.
- DSLR shall provide the UPS power output. The vendor should lay down necessary cabling from the nearest point.
- All cameras should be IP based.



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- IP Camera and Network Video Recorder should be on same make
- 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.
- A network, comprising a 24-port PoE switch and 16-port PoE switch shall be 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. It shall be connected to the existing TV for monitoring the Video.
- The proposed Solution should allow DSLR 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 analyze 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 basis i.e. 24 hours all the days and need to have at least 30 days data storage capacity for all cameras. A backup shall be provided to the external HDD or network provided by the DSLR.

### Specification

Required Minimum specification. NVR and Camera should be on same make.

### Network Video Recorder

Feature	Specification
IP Camera Input	32 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Interface	2 HDMI, 1 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

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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 10TB 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic

## 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic



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## 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic

IP Camera and Network Video Recorder should be on same make

## Bill of Material

Sl No	Item	Qty	Unit
1	IP Based Dome Camera as per specification	10	Nos
2	IP Based indoor Bullet Camera as per specification	10	Nos
3	32 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, 230V power input	1	No
6	16 Port PoE+ (10/100/1000) managed switch, 230V power input	1	No
7	Supply and laying of CAT 6 UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	700	Mtr
8	Supply and fixing of 20 mm medium gauge PVC ivory conduit with special confirming to ISI standard on surfaces/races using suitable size fixtures spacing not exceeding 50 cm including making good the damage colour washing etc as required – Approximate length.	600	Mtr
9	Supply and Installation of 15Mtr HDMI cable high quality (4K, 30Hz)	1	No
10	Accessories, connectors, etc (if any)	1	Lumpsum
11	Testing, Installation and commissioning charges	1	Lumpsum



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**Part A. Technical Bid**

**Directorate of Survey and Land Records**  
Thiruvananthapuram, Kerala

**Profile of the Bidder**

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at Directorate of Survey and Land Records, Thiruvananthapuram.

1. Name and complete address of the Tendered Company	
2. Tele/Fax/E-mail/Cell No. of the Tendered 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  
Bidder

Name and Signature of  
  
with Corporate Seal

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**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	32 Channel		
Two-way Talk	1 Channel Input, 1 Channel Output, RCA		
Interface	2 HDMI, 1 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		
Internal HDD	4 SATA III Ports, Up to 10 TB 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic		

**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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic		

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## IP Camera – Bullet Network Camera

Make &amp; 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic		



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## Part B. Financial Bid

Directorate of Survey and Land Records  
Thiruvananthapuram, Kerala

## PART B. FINANCIAL BID

Supply, installation and commissioning of IP Based Video Surveillance System (CCTV) at  
Directorate of Survey and Land Records, Thiruvananthapuram.

Sl 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	No				
4	6 TB Surveillance hard disk	2	No				
5	24 Port PoE (10/100/1000) managed switch	1	No				
6	16 Port PoE (10/100/1000) managed switch	1	No				
7	Supply and laying of CAT 6 UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	700	Mtr				
8	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.	600	Mtr				
9	Supply and Installation of 15Mtr HDMI cable high quality	1	No				
10	Accessories, connectors, etc (if any)	1	Lumpsum				
11	Testing, Installation charge	1	Lumpsum				
	<b>Grand Total</b>						

Date  
Bidder

Name and Signature of

with Corporate Seal

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DIRECTOR



## ANNEXURE I

(Agreement to be executed by the successful tenderer in Kerala Stamp Paper worth ₹200/-)

Articles of agreement made the ..... day of ..... between The Director of Survey and Land Records Department, Survey Bhavan Vazhuthacaud, Thiruvananthapuram acting for & on behalf of the Governor of Kerala of the one part and M/s.....a Company Limited incorporated under the Companies Act, 1956 and having its registered Office at ..... (hereinafter called the successful tenderer) jointly and severally of the other part for the supply of equipment ..... (.....Nos) at the agreed amount of Rs. .... (Rupees..... only).

And whereas the The Survey And Land Records Department( here in after called the "SLRD") have been pleased to accept the contract in respect of the articles mentioned in the copy of order attached:

And whereas the successful tenderer has as security for the satisfactory fulfillment of this contract

- (i) deposited Rs..... /- (Rupees.....) i.e. sum equal to five percent of the value of the contract as per Bank Draft No.....dated ..... of the ..... Bank duly approved by the SLRD.
- (ii) Provided a Bank guarantee for a sum of ₹ ..... (Rupees.....) as per the Bank guarantee No. ...., dated ..... of ..... being the value of ..... percent of the contract

Now these Present Witness and it is hereby mutually agreed as follows:

1. The successful tenderer shall undertake to supply material according to the standard samples and specifications. In other cases he should send samples to conform to the description given in the schedule when required to do so. Approved samples will not be paid for and shall become the property of the SLRD, but may at the discretion of the SLRD be returned to the successful tenderer whose tender is accepted, on the completion of his contract. All samples must be clearly labeled to show to what particular items tendered for they relate and should be of sufficient size and quantity to enable The Survey and Land Records Department to compare supplies therewith.
2. No representation for enhancement of rates once accepted will be considered.
3. The approximate quantities to be supplied are shown in the copy of order no..... dated ..... in file no. .... herewith attached, which shall be treated as a part of this agreement, as nearly as can be foreseen; but they are merely estimates of quantities that may be required for general guidance of tenderers, and The SLRD in no case binds itself to purchase any



quantity at all during the period of contract if no necessity arises therefore; but the successful tenderer shall supply any quantity of any article at the rate tendered by him for that article up to 25 per cent, in excess of the estimated quantity quoted, and in the event of his inability to do so, or to offer a suitable alternative to the satisfaction of the SLRD, the SLRD is at liberty to purchase the article or an article of similar quantity from elsewhere and should the price of the articles so purchased be in excess of the tendered rate to deduct the difference of cost from the successful tenderer's bills or his security deposits, as the case may be. The successful tenderer shall not however be entitled to the excess, if any, of the tendered rate over such purchase amount.

4. In case the successful tenderer fails to supply and deliver any of the articles and things tendered for by him within the time provided for delivery of the same or in case the successful tenderer commits any breach of any of the covenants, stipulations and agreements herein contained, and on his part to be observed and performed, then and in any such case, it shall be lawful for the SLRD (if it shall think fit to do so) by an order in writing to put an end to this contract, and in case the SLRD shall have incurred, sustained or been put to any costs, loss, damages or expenses by reason on this contract having been so put an end to or in case any difference in price, compensation, loss, costs, damages, expenses or other money shall then or at any time during the continuance of this contract be payable by the successful tenderer to the SLRD under and by virtue of this contract it shall be lawful for the SLRD from and out of any moneys for the time being payable or owing to the successful tenderer from the SLRD under or by virtue of this successful tenderer or other wise to pay and reimburse to the SLRD all such costs, loss, damages and expenses they may have sustained, incurred or been put to by reason of this contract having been so put an end to as aforesaid and also all such difference in price compensation, loss, costs, damaged, expenses and other moneys as shall for the time being be payable by the successful tenderer aforesaid.
5. Every notice hereby required or authorized to be given may be either given to the successful tenderer personally or left at his residence or last known place of abode or business, or may be handed over to his agent personally or may be addressed to the successful tenderer by post at his usual or last known place of abode or business, and if so addressed and posted, shall be deemed to have been served on the successful tenderer on the date on which in the ordinary course of post, a letter so addressed and posted would reach his place of abode or business.
6. All payments to the successful tenderer will be made in due course :-
  - (i) either by the SLRD cheques payable at the Government Treasuries; or
  - (ii) through the NEFT/RTGS on the State Bank of India at Thiruvananthapuram or at any of its principal branches in India.
7. The successful tenderer shall not assign or make over the contract or the benefits of burden thereof or any part thereof to any other person or persons or body corporate. The successful tenderer shall not underlet or sublet to any person or persons or body corporate the execution of the contract or any part thereof without the consent, in writing, of the SLRD. The SLRD shall have absolute power to refuse any such request for consent and such consent (if given) at any time, if they are not satisfied with the manner in which the contract is being executed and no allowance or compensation shall be made to the successful tenderer or the sub-successful tenderer, upon such rescission.



Provided always that if such consent be given at any time, the successful tenderer shall not be relieved from any obligation duty or responsibility under this contract.

8. In case the successful tenderer becomes insolvent or goes into liquidation or makes or proposes to make any compromise with his creditors for the settlement of his debts, or carries on his business or the successful tenderer under instruction on behalf of his creditor, or in case any receiving order or orders for the administration of his estate are made against him, or in case the successful tenderer shall commit any act of insolvency or in case in which, under any clause or clauses of this contract, the successful tenderer shall have rendered himself liable to damage, amounting to the whole of his security deposits the contract shall thereupon, after notice given by The Director , Survey and Land Records Department, to the successful tenderer be determined; and The Director , Survey and Land Records Department may complete the contract in such time and manner and by such person as the SLRD shall think fit. But such determination of the contract shall be without any prejudice to any right or remedy of the SLRD against the successful tenderer or his sureties in respect of any breach of the contract committed by the successful tenderer.
9. All expenses and damages caused to the SLRD by any breach of all or any of the terms of this contract by the successful tenderer shall be paid by the successful tenderer to the SLRD and may be recovered from him.
10. The security deposit shall, subject to the conditions specified herein, be returned to the successful tenderer within three months after the successful completion of the contract, but in the event of any dispute arising between the SLRD and the successful tenderer, the SLRD shall be entitled to deduct out of the deposit or the balance thereof, until such dispute is determined, the amount of such damages costs, charges and expenses as may be claimed, the same may also be deducted from any other sum which may be due at anytime from the SLRD to the successful tenderer.
11. The successful tenderer hereby declares that the goods / stores/articles sold to the SLRD under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained *I* mentioned in the copy of the order mentioned in clause 3 hereof and the successful tenderer / hereby guarantees that the said goods / stores/articles would continue to conform to the description and quality aforesaid for a period of days *I* months from the date of delivery of the said goods *I* stores *I* articles to the bond and that notwithstanding the fact that the SLRD (inspector) may have inspected and or approved the said goods/stores/articles if during the aforesaid period of ..... days *I* months the said goods/stores/articles be discovered not to conform to the description and quality aforesaid or have deteriorated (and the decision of the SLRD in that behalf will be final and conclusive) the SLRD will be entitled to reject the said goods / stores/articles or such portion thereof as may be discovered not to conform to said description and quality. On such rejection the goods/ articles / stores will be at the successful tenderer's risk and all the provisions herein contained relating to rejection of goods etc; shall apply. The successful tenderer shall if so called upon to do, replace the goods etc; or such portion thereof as is rejected by the SL. Otherwise the successful tenderer shall pay to the SLRD such damages as may arise by reason of the breach of the conditions herein contained. Nothing herein contained shall prejudice any other right of the SLRD in that behalf under this contract or otherwise.



12. The terms and conditions given in this agreement and or the order referred to in clause 3 above, shall supersede all the terms and conditions contained in the tender / quotation submitted by the successful tenderer or in the covering letter forwarding the said tender / quotation. Where the successful tenderer's terms and conditions are at variance with this agreement and / or the order for the supply, the terms & conditions in the agreement shall prevail.
13. In cases where a successful tenderer, after having made partial supplies fails to fulfill the contract in full, all or any of the materials not supplied may, at the discretion of the SLRD / purchasing officer be purchased by means of another tender / quotation or by negotiation from the next higher tenderer who had offered to supply already and the loss, if any, caused to the SLRD shall thereby together with such sums as may be fixed by the SLRD towards damages be recovered from the defaulting tenderer.
14. Even in cases where no alternate purchases are arranged for the materials not supplied the proportionate portion of the security deposit based on the cost of the materials not supplied at the rate shown in the tender of the defaulter shall be forfeited and balance only shall be refunded. If the recoverable amount is higher than the security deposit, the balance shall be recovered under the Revenue Recovery Act.
15. "The courts situated at the place where the headquarters of the SLRD is situated viz, Thiruvananthapuram alone will have jurisdiction to entertain civil suits pertaining to this contract."

In Witness where of the parties hereto have here in to set their hands the day and year first above written.

Signed, sealed and delivered.

by.....  
.....

and on behalf of the Survey and Land Records Department

In the presence of : -

Witness: 1.

2.

Signed sealed and delivered

by .....

(Successful tenderer)

In the presence of: -

Witness: 1.

2.

**Scope, Specification and Bill of Material of  
Supply, installation and commissioning of IP Based  
Video Surveillance System (CCTV) at Directorate of Survey and Land Records**

## Contents

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## Scope of Work

- Installation of CCTV cameras at preferred locations covering the 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 Directorate of Survey and Land Records.
- DSLR shall provide the UPS power output. The vendor should lay down necessary cabling from the nearest point.
- All cameras should be IP based.
- IP Camera and Network Video Recorder should be on same make
- 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.
- A network, comprising a 24-port PoE switch and 16-port PoE switch shall be 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. It shall be connected to the existing TV for monitoring the Video.
- The proposed Solution should allow DSLR 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 analyze 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 basis i.e. 24 hours all the days and need to have at least 30 days data storage capacity for all cameras. A backup shall be provided to the external HDD or network provided by the DSLR.



## File No.DSLR/1067/2020-B6

**Specification**

Required Minimum specification. NVR and Camera should be on same make.

**Network Video Recorder**

<b>Feature</b>	<b>Specification</b>
IP Camera Input	32 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Interface	2 HDMI, 1 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
Internal HDD	4 SATA III Ports, Up to 10TB 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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic



## File No.DSLR/1067/2020-B6

**IP Camera – Dome Network Camera**

<b>Feature</b>	<b>Specification</b>
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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic

**IP Camera – Bullet Network Camera**

<b>Feature</b>	<b>Specification</b>
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	3.6mm
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	Axis, Bosch, Dahua, Hikvision, Honeywell, Panasonic

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	10	Nos
2	IP Based indoor Bullet Camera as per specification	10	Nos
3	32 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, 230V power input	1	No
6	16 Port PoE+ (10/100/1000) managed switch, 230V power input	1	No
7	Supply and laying of CAT 6 UTP cable EU, ROHS/ELV complaint including material and labour charges. Approximate length.	700	Mtr
8	Supply and fixing of 20 mm medium gauge PVC ivory conduit with special confirming to ISI standard on surfaces/races using suitable size fixtures spacing not exceeding 50 cm including making good the damage colour washing etc as required - Approximate length.	600	Mtr
9	Supply and Installation of 15Mtr HDMI cable high quality (4K, 30Hz)	1	No
10	Accessories, connectors, etc (if any)	1	Lumpsum
11	Testing, Installation and commissioning charges	1	Lumpsum

**Signature valid**

Digitally signed by R  
GIRIJA AS  
Date: 2021.07.02 12:06:26  
IST  
Reason: Approved