

Tender Notice
No. TB/Pur CCTV/APF/2019, Dated.18.06.2019

Tender Document for Supply, Installation and Commissioning of CCTV Cameras in
Tobacco Board Auction Platforms in Karnataka.



TOBACCO BOARD

(Ministry of Commerce & Industry, Govt. of India)
AN ISO 9001:2008 CERTIFIED ORGANISATION
1/9, 3rd Cross, CSI Compound,
4th Floor, Unity Building Annexe,
Mission Road, Bengaluru – 560 027
Ph: 080-22236599, Fax: 080-22225075,
Email: bangaloreoffice@indiantobacco.com

Background

Tobacco Board proposes to install CCTV cameras in auction platforms for internal security, to monitor day to day activities, auction proceedings in Auction Hall and Godown during auction season etc., in Karnataka.

It is proposed to install 4 new CCTV cameras in the Auction Hall and 4 nos at Godown at each of the Auction Platforms at 6 locations mentioned at point no.1.1 below:-

1. Scope of Work

- 1.1 To install 48 CCTV cameras i.e. 4 nos. in Auction Hall and 4 nos. in the Godown of Auction Platforms located in APF.No.2-Hunsur, APF.No.5-Periyapatna, APF.No.6-Periyapatna, APF.No.7-Ramanathapura and APF.No.63-Ramanathapura and APF.No.61-Kampalapura. The address of each location is furnished as detailed below:

S.No.	Name & Address of the Auction Platform (location) proposed to install CCTV
1	Office of the Auction Superintendent, Tobacco Board, APF.No.2, Hunsur-I, Kattimalvadi, Hunsur (T), Mysuru (D). Ph. 08222-252231, M.No.9448495506, email:apf7@indiantobacco.com
2	Office of the Auction Superintendent, Tobacco Board, APF.No.61, Kampalapura, Periyapatna (T), Mysuru (D) Ph.08223-210403, M.No.9448495511, email:apf61@indiantobacco.com
3	Office of the Auction Superintendent, Tobacco Board, APF.No.5, H.H.Bagilu (P), Periyapatna-II, Periyapatna (T), Mysuru (D) Ph.08223-274149, M.No. 9448495509, email:apf5@indiantobacco.com
4	Office of the Auction Superintendent, Tobacco Board, APF.No.6, H.H.Bagilu (P), Periyapatna-III, Periyapatna (T), Mysuru (D) Ph.08223-274951, M.No. 9448495510, email:apf6@indiantobacco.com
5	Office of the Auction Superintendent, Tobacco Board, APF.No.7, Ramanathapura-I, Arkalagudu (T), Hassan (D). Ph.08175-225536, M.No. 9448495513, email:apf7@indiantobacco.com
6	Office of the Auction Superintendent, Tobacco Board, APF.No.63, Ramanathapura-II, Arkalagudu (T), Hassan (D). Ph.08175-289024, M.No. 9448495514, email:apf63@indiantobacco.com

- 1.2 To set up the NVR box in APFs to access the video of all CCTV cameras by Officials at the Tobacco Board in Head Office, Guntur, Directorate Office and Regional Offices over Internet. Without Static IP, the NVR boxes shall be configured using DDNS free to access the CCTV cameras from anywhere through internet.
- 1.3 All camera recordings shall have Camera ID & Location/ Area or recording as well as date / time stamp. Camera ID, location/area of recording & date/time shall be programmed by the service provider with user ID and password.
- 1.4 To provide an online display of video images on TFT monitor / Plasma Screen located in Auction Superintendent Office Room.

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- 1.5 System to have facility of additional camera installation beyond the originally planned capacity.
- 1.6 The system should have the capacity of functioning 24x7 days in Indian conditions.
- 1.7 Preferably the tenderer should visit the above auction platforms before quoting the rate to satisfy that it will serve the purpose for which it is intended.

2. Cost of the Tender form and EMD Amount:

- 2.1 The Tender document is available on the Tobacco Board's website **<https://www.tobaccoboard.com>** under tenders section.
- 2.2 The cost of tender document is **Rs.2200/-** (Rupees Two Thousand Two Hundred Only) non refundable by way of DD drawn in Nationalized Banks in favour of Director (Auctions), Tobacco Board payable at Bengaluru or shall be paid in cash at Directorate of Auctions, Tobacco Board, Bengaluru. The tender will be rejected in case the tender fee receipt is not enclosed alongwith the tender.

3. EMD Amount:

- 3.1 The bidder shall furnish EMD for an amount of **Rs.50,000/-** (Rupees Fifty Thousand only) alongwith Technical Bid in a sealed cover Superscribed as Technical Bid with EMD in the form of a Demand Draft drawn on any nationalised bank in favour of Director (Auctions), Tobacco Board payable at Bengaluru.
- 3.2 In case the Bidder claims for waiver of EMD, he/she shall provide documentary proof of being registered with the Central Purchase Organization, National Small Industries Corporation (NSIC)/MSME or the concerned Ministry or Department as per Rule 170 of GFR 2017, of Government of India, as amended from time to time. The registration must remain valid till the Bid Validity period.
- 3.3 Bids without Earnest Money or documentary evidence for waiver of the same as indicated above shall be summarily rejected as non-responsive.
- 3.4 The tender received after the prescribed date and time will be summarily rejected.
- 3.5 The EMD of the successful tenderer will be retained by the Board till the commissioning of the CCTV cameras will be refunded after receiving performance security deposit and the agencies shall not claim any interest on the EMD.
- 3.6 Unsuccessful bidder's EMD will be returned within 30 days from the date of placement of work order to the successful bidder and the agencies shall not claim any interest on the EMD.

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4. Performance Security Deposit (PSD) :

- 4.1 The successful firm has to deposit 10% of the value as Performance Security Deposit (PSD) by way of DD drawn in Nationalized Banks in favour of Director (Auctions), Tobacco Board payable at Bengaluru within 7 days of issue of Work Order. The Performance Security Deposit will be refunded to the successful firm after a period of 1 year from the date of commissioning. The firm shall not claim any interest on the PSD.
- 4.2 **Forfeiture of PSD:** In case the successful firm does not fulfill any of the conditions or backs out at any stage, the supply order will be cancelled and Performance Security Deposit will be forfeited.

5. Eligibility Criteria : Only those bidders fulfilling the following criteria should respond to the tender and agreeing to terms & conditions and specification.

- 5.1 Bidders should have been in business for a period of 03 years as evidenced by Certificate of Incorporation / Firm Registration Certificate issued by the Registrar of Companies and have at least dedicated branch office in Bengaluru/Mysuru/Hassan for Annual maintenance contract and shall submit No. of projects executed alongwith contract value where CCTV's have been installed and commissioned.
- 5.2 The Bidder must have a turnover of more than Rs.25 Lakhs in at least one of the last three financial years ending on 31.03.2019 i.e. F.Y 2018-19, F.Y 2017-18 and F.Y 2016-17 (proof of documents to be produced).
- 5.3 The Bidder should not be blacklisted by any of the Government agencies. Declaration should be given by authorized signatory and undertaking in this regard must be submitted as per the format in **Annexure-II**. The firms that have been black listed by Central Government / State Government Departments & Undertakings / Public Sector Undertakings/Autonomous Bodies are not eligible to participate in the bidding process. If at any stage of bidding process or during the currency of work order, such information comes to the knowledge of Tobacco Board, Tobacco Board shall have right to reject the bid or cancel the work order, as the case may be, without any compensation to the bidder.
- 5.4 Bidders possessing experience of having successfully supplied and installed at least one (1) work not less than Rs.12.00 Lakhs within last 3 years in Central Government / State Government Departments & Undertakings / Public Sector Undertakings/Autonomous Bodies and should submit evidence from the respective clients to be submitted along with Technical Bid.
- 5.5 The intending bidder, in case of Prime Equipment Manufacturers shall submit a self declaration on their letter-head, along with the tender documents, confirming that they are regular in manufacturing, supplying, installing, testing and commissioning of the similar equipment from last 2 years.

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5.6 The intending bidder, in case of Authorized Distributor/ Authorized Dealer shall possess valid authorized Distributorship /Dealership license from Prime Equipment manufacturers in original should be submitted alongwith the technical bid as per Annexure-III.

5.7 Tender documents/Terms and conditions shall be signed by the tenderer in each page as a token of acceptance.

Bids not satisfying the above eligibility criteria / not accompanied by the requisite documentary proofs shall be rejected and not considered further for evaluation of commercial proposal.

6. Payment Schedule :

6.1 **90% of the work order value** will be given after successful supply and installation in each Auction Platform succesful commissioning and demonstration at all locations and against submission of invoice in duplicate along with delivery challan, installation report, certification from the concerned Auction Superintendent for cabling work (in meters), Fixing PVC/HDPE pipes (in meters) and Soft soil digging & refilling (in meters)and balance **10%** shall be given after 6 months based on the satsifactory performance.

7. Terms & Conditions:

7.1 Bidders shall submit copies of Income Tax returns for last three years for financial year **2016-17, 2017-18, 2018-19** along with the PAN registration

7.2 Bidders should have GST registration as evidenced by Registration Certificate issued by concerned department and should have adequate financial standing and proven track record.

7.3 Bidders shall furnish the data sheets for the major items mentioned in the technical specification.

7.4 Bidder shall quote for all the materials which must be branded and bear the brand/manufacturer's name for identification, traceability and shall be of ISO standard.

7.5 Bidders shall supply Core, Access Switches, Modules, IP Cameras, NVRs and other accessories as mentioned in the Financial bid.

7.6 Bidders shall perform the site survey & submit pre-implementation plan.

7.7 The quoted products shall be field proven products that have been installed and working satisfactorily in Govt. Departments.

7.8 **Defect liability period:** The defect liability period shall be 36 (Thirty Six) months from the date of completion of the work. The successful bidder shall be responsible for all defects in the material supplied like defective workmanship, use of defective materials, breakage, etc. for a period of 36 (Thirty Six) months from the date of completion of the job. The successful bidder shall rectify the defects/defective parts within 24 hrs. or maximum up to 48 hrs from the time of lodging the complaint up to the satisfaction of the competent authority of PFRDA or otherwise PFRDA shall have the right to rectify the defect at the successful bidder's own risk and the cost of which will be adjusted from the security Deposit. Decision of PFRDA, Delhi in this regard shall be final and binding on the successful bidder.

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7.9 **Annual Maintenance Contract** : Bidders shall give an undertaking to maintain the system for a minimum period of 3 years after completion of warranty period for 3 years on lumpsum basis per platform. For this, the Service Centre Name and Address, Phone number of contact person and persons employed shall be given.

7.10 **Submission of Bids**: Only physical bids received by Directorate of Auctions, Tobacco Board, Bengaluru office will be considered for opening. Bids sent through fax or email will not be considered.

The tender should be submitted in a sealed cover in two parts as under

a) **Technical Bid**: Envelope should subscribed "Technical bid for Supply, installation, testing, commissioning of CCTV Camera in Auction Platforms". It should contain Technical Bid Form alongwith requisite documents, i.e. Tender Fee, Earnest Money Deposit (EMD), Annexure-I Bill of Material, Annexure-II Tender Offer-cum-Undertaking form & Annexure-III Prime Equipment Manufacturers Authorisation Form, Annexure-IV Technical Specifications compliance report (page no.13 to 19), duly acknowledged data sheets for the major items mentioned in the technical specification and Tender documents/Terms and conditions signed & seal by the tenderer in each page (page no.1 to 7) etc.,

b) **Financial Bid**: The second envelope should subscribed "Financial bid for Supply, installation, testing, commissioning of CCTV Camera in Auction Platforms" and it should contain the rates etc. as per Financial bid .

Both 'Technical Bid' and 'Financial Bid' shall be kept in other envelope superscribed as 'Tender for setup of CCTV Cameras in Auction Platforms' and shall be dropped into the Tender Box at the Tobacco Board, Directorate of Auctions, 1/9, III Cross, Mission Road, 4th Floor, Unity Building Annexe, Bengaluru-560027 on or before **10.07.2019 by 11.30 AM** Late tenders will not be accepted under any circumstances.

7.11 There should not be over writing or corrections in the rates quoted in the tender form.

7.12 Unit price must be mentioned in INR inclusive of transportation cost, handling charges etc.,

7.13 **Technical Bid**: The Technical Bid will be opened on **10.07.2019 at 12.00 Noon** in the presence of authorised representatives of the tenderers who wish to participate.

7.14 **Financial Bid** : The tenderers who qualify in the technical bid shall be intimated to participate in financial bid, the date of which will be decided by Competent Authority.

7.15 **Validity of financial Bid** : The validity of offer shall be given as 3 months.

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- 7.16 **Delivery Period:** The successful firm should supply & install preferably within one month from the date of issue of work order.
- 7.17 **Penalty:** Penalty will be levied on the firm @ **0.5%** of the value of balance work to be executed for each week of delay.
- 7.18 Tobacco Board reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder(s) on the grounds of Tobacco Board's action.
- 7.19 It may also be noted that in case of the bidder backing out during the contract period without any explicit consent of the department, he will be liable to forfeiture of EMD amount.
- 7.20 **Status Report:** The successful firm shall submit weekly status report regarding supply/installation to Directorate of Auctions, Tobacco Board, Bengaluru, from commencement till installation.
- 7.21 Income Tax shall be deducted from the bills payable to the firm as per I.T. rules in force.
- 7.22 As per GST Act'2017 in force, TDS shall be deducted from the bills payable to the firm.
- 7.23 Before submitting the tender, all the conditions stipulated shall be fulfilled and no tenderer will be allowed to rectify mistakes, if any, after opening the tender by the Committee Members.
- 7.24 The requirement may either decrease or increase. The rates quoted and finalized would be applicable for the reduced/increased requirements.
- 7.25 For any clarification you may contact Assistant Manager (Works), Directorate of Auction, Tobacco Board, Bengaluru during office hours on landline no 080-22236599.
8. **Guarantee / Warranty :** The entire CCTV System supplied and installed should be under onsite warranty of **Three years** against all types of defects and deficiencies from the date of handing over of the system to Tobacco Board, Auction Platforms. Any defects found in the product/sub-product within the warranty period of 3 years shall be rectified/ replaced by the vendor free of cost. During this period of warranty, servicing at quarterly interval or earlier without any additional cost besides attending to call back services in case of break down shall be carried out free-of-cost. This includes replacement of parts and spare parts and any number of break down call.
9. Director (Auctions), Tobacco Board, reserves the right to accept or to cancel all the tenders without assigning any reasons thereof.
10. **Arbitration:** In case of dispute, the matter shall be referred to Executive Director, Tobacco Board for appointing an arbitrator whose decision shall be final and binding on the firm.
11. **Court Of Jurisdiction:** Any litigation/dispute if not solved through arbitration proceedings may be challenged in a court of law and for that, the jurisdiction shall be Bengaluru court.

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TOBACCO BOARD : BENGALURU

TECHNICAL BID

Tender Form for Supply and Installation of CCTV Cameras in Auction
Platforms in Karnataka

1	Name of the Firm:		
2	Registered Office Address:		
	Fax No.		
	Telephone No.		
	E-mail Address		
3	Service Centre Details	Location -1	Location-2
	Postal Address		
	Fax No.		
	Telephone No.		
	Email :		
4	Year of Establishment & Registration No.		
5	GST No.		
6	Permanent Account No.(PAN)		
7	Turnover Details (Proof to be enclosed)	2016-17 - Rs. 2017-18 - Rs. 2018-19 - Rs.	
8	The Tenderer should have successfully installed at least one work value of Rs.12.00 Lakhs within last 3 years.		
9	Name, Designation & address of the authorised person in respect of this tender		
10	Tender document Cost, if not exempted (enclose DD/Cash receipt)	Amount Rs.: Cash Receipt No., / Demand Draft No.: Name of the Bank :	
	Details of EMD, if not exempted (Enclose DD)	Amount Rs.: Demand Draft No.: Name of the Bank :	

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11	Validity of the Tender (90 days from date of opening of tender)	Yes / No			
12	Total Experience in setup of CCTV cameras with proof (should be more than 3 Years)				
13	No. of major projects executed where CCTV setup was installed and commissioned last 3 years (Give details – minimum 5 nos. to be given):				
Sl. No.	Name of the Customer & contact information.	No. of CCTV Cameras installed	Brand / Model of CCTV Cameras / NVR Boxes installed	Value of the Contract (Rs.)	Date of completion of installation (Any certificate issued by the authorities to be enclosed)
1					
2					
3					
4					
5					

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Bill of Material (BOM):**Annexure-I**

S No	Item Description	Quantity	No.of Locations	Preferred brands and technical specifications
1	4MP IP 66 Rated Varifocal Dome Camera	4 Per Location	6 locations	Specifications as per Annexure-IV(I) and preferred brands are Honeywell/Samsung / Bosch/Sony/Vivotek
2	4MP IP 66 Rated Varifocal Bullet Camera	4 Per Location	6 locations	Specifications as per Annexure-IV(II) and preferred brands are Honeywell/Samsung / Bosch/Sony/Vivotek
3	16 Channel NVR with 4 SATA HDD	1 Per Location	6 locations	Specifications as per Annexure-IV(III) and preferred brands are Honeywell/Samsung / Bosch/Sony/Vivotek
4	24 Port 10/100/1000 PoE Smart Switch Plus 2 SFP Ports	1 Per Location	6 locations	Specifications as per Annexure-IV(IV) and preferred brands are Digisol/D-Link/TP Link
5	6Core OFC Cable Armoured	Per Meter	6 locations	D-Link/Digisol/Finolex
6	Fiber Module 1000Mbps Single Mode	1 Set per location	6 locations	D-Link/TP Link/Netfox
7	9U Network Rack with Power Manager, Fans & Other Accessories	1 per Location	6 locations	Netfox/ValRack
8	Power Cable 2C * 1.5 Sq mm Unarmoured	Per Meter	6 locations	Finolex or Equivalent
9	4TB Video Surveillance Hard Disk	1 Per Location	6 locations	Seagate/WD
10	32" LED Monitor	1 Per Location	9 locations	LG/Samsung/VU or Equivalent
11	Cat6 UTP Cable	Per Meter	6 locations	Dlink/Digisol/Digilink
12	Fiber Connector SC/LC Patch Cords 3M, RJ-45 Jacks	Per Location	6 locations	Dlink/Digisol/Digilink
13	Power Box	1 Per Location	6 locations	Reputed
14	25mm HDPE Pipe	Per Meter	6 locations	Sudhakar or Equivalent
15	25mm Medium Guage PVC	Per Meter	6 locations	Sudhakar or Equivalent
16	Cable Laying, Digging & Labor Charges	Per Meter	6 locations	--
17	Installation, Commissioning, Programming & Net Working Charges	Per Site	6 locations	--

DECLARATION

I have gone through the terms and conditions issued by the Tobacco Board and agree to abide by all terms and conditions. The above information furnished by me is true to the best of my knowledge. If the information is found false at any stage, Performance Security deposited by me may be forfeited.

Place:

Date:

SEAL & SIGNATURE OF THE TENDERER

Tender Offer-cum-Undertaking Form

Tender Reference No.....

Date:.....

From,
M/s.....

To,
Tobacco Board,
Government of India, Min. of Commerce and Industry,
Directorate of Auctions, 1/9 III Cross, CSI Compound, 4th floor,
Unity Building Annexe, Mission Road, Bengaluru – 560027.

Sir,

Sub: Sealed tender offer for supply & Installation of CCTV cameras – reg.

Having examined the tender documents including all Annexures the receipt of which is hereby duly acknowledged, we the undersigned offer our tender for supply and installation of CCTV cameras as required by the Tobacco Board, Directorate of Auctions, Bengaluru in conformity with all the said tender document.

We undertake, if our tender offer is accepted, to commence supply within _____ days from the date of receipt of your order awarding work.

We declare that we have not been black listed by any Govt. Department.

If our tender offer is accepted, we will deposit additional amount as prescribed by Tobacco Board on contract value as Performance Security Deposit (PSD) for due performance of the contract.

We agree to keep our offer valid for a period of three months and shall remain binding upon us.

Until a formal contract is prepared and executed, this tender offer, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any offer you may receive and also to reject any offer without assigning any reason whatsoever.

Date:

Authorized Signatory
Designation and Seal

PRIME EQUIPMENT MANUFACTURER AUTHORIZATION FORM

Ref No :

Dated :

To,
The Director (Auctions),
Directorate of Auctions,
Tobacco Board, 4th Floor, Unity Building Annexe,
Mission Road,
BENGALURU – 560027.

Ref: 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.

TECHNICAL SPECIFICATIONS

Annexure-IV

I. Make / Model (Specify) _____ 4 MP Day& Night Motorized Dome Network POE Camera				
S.NO	SPECIFICATIONS		Compliance (YES/NO)	Deviations, if any
1	Scanning System	Progressive scan		
2	Image Sensor	1/3" 4 MP CMOS		
3	Number Of Pixels (H×V)	2688×1520 (4 MP)		
4	Minimum Illumination	0.1 lux, F1.4 (color) 0 lux (B/W with IR LEDs on)		
5	S/N Ratio	50 dB or more		
6	Electronic Shutter Speed	1/3–1/100 000 s		
7	Ir Distance	Up to 100 ft (30 m), depending on scene reflectance		
8	Day/Night	Auto(ICR)/Color/BW		
9	Backlight Compensation	BLC/HLC/WDR (120 dB)		
10	White Balance	Auto/Manual		
11	Gain Control	Auto/Manual		
12	Noise Reduction	3DNR		
13	Privacy Masking	Up to 4 areas		
14	Motion Detection	Up to 4 areas		
15	Lens	2.7–12 mm, MFZ, F1.4		
16	Horizontal Angle Of View	86° - 30°		
17	Corridor Mode	Yes		
18	Video Compression	H.265/H.264H/H.264B/ MJPEG		
19	Frame Rate	20 fps @ 2688×1520 (4 MP); 20 fps @ 2560 × 1440 (4 MP); 25/30 fps @ 2304×1296 (3 MP), 1920×1080 (1080p), 25/30fps @ 1280×1024 (SXGA), 25/30fps @ 1280×960 (1.3 MP), 1280×720 (720p), 704×576/ 704×480 (D1), 352×288/352×240 (CIF)		
20	Bit Rate (H.264)	32 Kbps – 10 Mbps		
21	Local Storage	microSD, 128 GB max. (not supplied)		
22	Ethernet	RJ-45 (10/100Base-T)		
23	Protocols*	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1X		
24	Compatibility	ONVIF Profile S , Profile G*		

S.NO	SPECIFICATIONS		Compliance (YES/NO)	Deviations, if any
25	Max. User Access	20 users		
26	Mobile Devices	iPhone and Android devices		
27	Power Supply	PoE IEEE 802.3af Class 0, 12 VDC		
28	Power Consumption	8.0 W max.		
29	Dimensions	122.0 × 88.9 mm (4.8 × 3.5 in.)		
30	Weight	1.1 lb (0.5 kg)		
31	Construction	Die-cast aluminum housing with powder coat		
32	Construction Color	RAL 9003 (White)		
33	Temperature	–30°C to 60°C (–22°F to 140°F)		
34	Relative Humidity	0–95 , non-condensing		
35	Ingress Protection	IP66		
36	Vandal Resistance	IK10		
37	Emissions	FCC Part 15, CE (EN 55032)		
38	Immunity	CE (EN 50130-4)		
39	Safety	North America UL Listed to UL/ CSA 60950-1, CE (EN 60950-1)		
46	Warranty	Comprehensive Warranty for three years		
II. Make / Model (Specify) _____ 4 MP Day& Night Bullet Motorized Network POE camera				
1	Video Standard	NTSC/PAL		
2	Scanning System	Progressive scan		
3	Image Sensor	1/3" 4 MP CMOS		
4	Number Of Pixels (H × V)	2688 × 1520		
5	Minimum Illumination	0.03 lux color @ F1.4(Color, 0 lux B/W with IR LEDs on @ 1/3s, 30 IRE) F1.4		
6	S/N Ratio	> 45 dB		
7	Electronic Shutter Speed	1/3(4) – 1/100,000 s		
8	Ir Distance	Up to 164 ft (50 m), depending on scene reflectance		
9	Smart Ir	Auto/Manual		
10	Day/Night	Auto (ICR)/Color/BW		
11	Backlight Compensation	BLC/HLC/WDR (120 dB)		
12	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
13	Gain Control	Auto/Manual		
14	Wide Dynamic Range	True WDR (120 dB)		
15	Noise Reduction	3D DNR		
16	Privacy Masking	Up to 4 configurable zones		
17	Motion Detection	Up to 4 configurable zones		
18	Region Of Interest	Up to 4 configurable zones		

S.NO	SPECIFICATIONS		Compliance (YES/NO)	Deviations, if any
19	Digital Zoom	16x		
20	Lens	2.7 – 13.5 mm, MFZ, F1.4		
21	Angle Of View	104° — 28° (H), 55° — 16° (V)		
22	Video Compression	H.265+/H.265/H.264+/H.264		
23	Resolution	4 MP (2688×1520), QHD (2560×1440), 3 MP (2304×1296), 1080p (1920×1080), SXGA (1280×1024), 1.3 MP (1280×960), 720p (1280×720), D1 (704×576/704×480), VGA (640×480), CIF (352×288/352×240)		
24	Frame Rate	4 MP at 1 – 20fps, 3 MP at 1 – 25/30fps D1/CIF at 1 – 25/30fps		
26	Bit Rate Control	CBR/VBR		
27	Bit Rate	H.265: 12K – 8448 Kbps		
28		H.264: 32K – 10240 Kbps		
29	Ethernet	RJ-45 (10/100BASE-T)		
30	Supported Web Browsers	Internet Explorer (11.0+)		
31	Supported Os	Windows 7 32-bit		
32	Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, SSL, FTP, SMTP, DHCP, PPPoE, UPnP, SNMP v2/v3, Bonjour, DNS, DDNS, IEEE 802.1X, QoS, NTP		
33	Interoperability	ONVIF Profile S, Profile G		
34	Maximum User Access	20 users		
35	Security	User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES-256, SSH/Telnet closed, FTP disabled		
36	Event	No SD card, SD card error, SD card capacity warning, network disconnection, IP address conflict, illegal access, video tampering, motion detection		
37	Event Notification	Record (SD card, NAS, and FTP), relay output, email, snapshot		
38	Micro Sd	Up to 128 GB microSDHC card, Class 10 (not included)		
39	Power Supply	PoE (802.3af) Class 0, 12 VDC		
40	Power Consumption	11.74 W max. (IR LEDs on)		
41	Operating Temperature	–22°F to 140°F (–30°C to 60°C)		

S.NO	Specifications		Compliance (YES/NO)	Deviations, if any
42	Storage Temperature	–22°F to 140°F (–30°C to 60°C)		
43	Relative Humidity	Less than 95 , non-condensing		
44	Ingress Protection	IP66		
45	Emissions	FCC Part 15B, EN 55032		
46	Immunity	EN 50130-4		
47	Safety	EU: EN 60950-1 North America UL listed to UL/CSA 60950-1		
48	Rohs	EN 50581		
46	Warranty	Comprehensive Warranty for Three Years		
III. Make / Model (Specify)_____ Network Video recorder 16 channel				
1	Main Processor	Quad-core embedded processor		
2	Operating System	Embedded LINUX		
3	Inputs	16 Channels IP		
4	Audio Input/Output	1 Channel Input/1 Channel Output, RCA		
5	Two-Way Communication	Supported		
6	Interface	1 HDMI, 1 VGA		
7	Resolution	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720;		
8	Display Split	1/4/8/9/16		
9	Osd	Camera title; Time; Video loss; Camera lock; Motion detection; Recording		
10	Compression	H.265/H.264		
11	Resolution	8 MP (3840 × 2160); 6 MP (3072 × 2048); 5 MP (2560 × 1920); 4 MP (2560 × 1440); 3 MP (2048 × 1520); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576 / 704 × 480); CIF (352 × 288/ 352 × 240)		
12	Frame Rate	1–15 fps (8 MP); 1–25/30 fps (rest of the resolutions) for each channel		
13	Record Bit Rate	200 Mbps		
14	Bit Rate1	16 kbps ~ 20 Mbps, per channel		
15	Recording Mode	Schedule (Regular/Continuous, Motion Detection, Alarm); Manual; Stop		
16	Recording Interval	1 to 120 minutes (default 60 min)		
17	Pre-Event Recording Interval	1 to 30 seconds		
18	Post-Event Recording Interval	10 to 300 seconds		
19	Trigger Events	Recording; PTZ; Tour; Alarm; Video Push; Email; FTP; Snapshot; Buzzer, Screen Tips		
20	Video Detection	Motion Detection—MD Zones: 396 (22 × 18); Video Loss; Tampering		
21	Alarm Input	4 Channels		

S No	Specifications		Compliance (YES/NO)	Deviations, if any
22	Relay Output	2 Channels		
23	Internal Hdd	2 SATA III ports, up to 12 TB		
24	Sync Playback	16-channel NVRs: 1/4/8/16		
25	Decoding	2-ch in 8 MP@15pfs or 4-ch in 1080P@30fps		
26	Search Mode	Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search		
27	Playback Function	Play; Pause; Stop; Rewind; Fast play; Slow play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup Selection; Digital Zoom		
28	Backup Mode Compatibility	USB Device; Network		
29	Ethernet	1 RJ-45 port (10/100/1000 Mbps)		
30	Supported Protocols2	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P		
31	Maximum Number Of Users	128 users		
32	Network Throughput	200 Mbps		
33	Smart Phone Compatibility	iPhone; iPad; Android		
34	Usb Ports	2 USB Ports (1 USB2.0, 1 USB3.0)		
35	Rs232	1 port (for PC communications)		
36	Power Supply	DC12V/4A		
37	Power Consumption	<6.9W (Without HDD)		
38	Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa		
39	Relative Humidity	0 % to 90 relative humidity		
40	Storage Temperature	-4°F to 158°F (-20°C to 70°C)		
41	Emissions	FCC Part 15B, EN55032: 2012+AC: 2013		
42	Immunity	EN50130-4: 2011		
43	Safety	EU: EN60950-1 North America UL listed to UL/CSA 60950-1		
44	Rohs	EN50581: 2012		
39	Relative Humidity	0 % to 90 relative humidity		
40	Storage Temperature	-4°F to 158°F (-20°C to 70°C)		
41	Emissions	FCC Part 15B, EN55032: 2012+AC: 2013		
42	Immunity	EN50130-4: 2011		
43	Safety	EU: EN60950-1 North America UL listed to UL/CSA 60950-1		
44	Rohs	EN50581: 2012		

IV. Make / Model (Specify) _____ 24- ports 10/100/1000 Base -T POE Smart Switch plus 2 SFP Ports				
S No	Specifications		Compliance (YES/NO)	Deviations, if any
1	Number of ports	24 10/100BASE-TX PoE, 2 1000BASE-T, 2 Combo 1000BASE-T/SFP along with Power budget 190W		
2	64-byte packet Forwarding rate	14.88Mbps		
3	MCA address	8K entries per device		
4	Ram for CPU	Minimum 128 Mbytes		
5	Flash Memory	Minimum 32 MB		
6	Jumbo Frame support	UP to 10,000 bytes		
7	SFP support	1000bases-SX/LX, 100 Base-FX		
8	POE	Minimum System POE Budget(65 W)		
9	Other Features	802.3X flow control		
		loopvback detection(LBD)		
		Auto MDI/MDIX		
		Port Mirroring(Multi-to-one, TX/RX/Both mode)		
		port Trunking(Group/Ports per group)(8/8)		
		Broadcast storm control		
		802.1D Spanning Tree		
		802.1W rapid Spanning Tree ,802.1s MSTP		
		Static Mac		
		IGMP Snooping		
		Cable Diagnostics		
		LLDP		
		LLDP-MED		
		aAuto Voice Vlan		
		Time-based PoE		
10	VLAN	802.1Q (Support Entries)		
		static 256		
11	Quality of service	802.1p support		
		priority queues number 4		
		port-Based Qos		
		Based on DSCP		
		Bandwidth Control		

S No	Specifications	Compliance (YES/NO)	Deviations, if any	S No
12	Access Control List (ACL)	Based on Switch Port		
		Based on MAC address		
		Based on VLAN ID		
		Based on 802.1p priority		
		Based on DSCP		
		Based on IPv4		
		Based on TCP/UDP Port number		
13	Security Management	Password control Access		
		802.1x port-based Access Control		
		Port Security		
		Trusted Host		
14	Management	Web Based management		
		CLI (interface)(via telnet)		
		Telnet server		
		TFTP Client		
		SNMP should Support v1/v2c/v3		
		BootP/DHCP client		
		SNTP		
		System Log		
		Configurable MDI/MDIX		
V. Fiber Module 1000Mbps Single Mode				
1	Fiber Module 1000Mbps Single Mode	Fiber Module 1000Mbps Single Mode compatible to these modules are compatible to the above layer 2 Switches		

Seal & Signature of the Tenderer

TOBACCO BOARD : BENGALURU

Financial Bid

S. No.	Item Description	Quantity	Unit Price	Total	Taxes	Grand Total
1	4MP IP 66 Rated Varifocal Dome Camera	24 Nos.				
2	4MP IP 66 Rated Varifocal Bullet Camera	24 Nos.				
3	16 Channel NVR with 4 SATA HDD	6 Nos.				
4	24 Port 10/100/1000 PoE Smart Switch Plus 2 SFP Ports	6 Nos.				
5	6Core OFC Cable Armoured	Approx. 2000 Meters*	/Per Meter			
6	Fiber Module 1000Mbps Single Mode	6 Sets for 6 locations	/Per Set			
7	9U Network Rack with Power Manager, Fans & Other Accessories	6 Sets for 6 locations	/Per Set			
8	Power Cable 2C * 1.5 Sq mm Unarmoured	Approx.2000 Meters*	/Per Meter			
9	4TB Video Surveillance Hard Disk	6 Nos.				
10	32" LED Monitors with Wall Mount KIT + 4kHDMI Cable 5 Meters.	9 Nos.	/Per Location			
11	Cat6 UTP Cable	Approx. 5000 Meters*	/Per Meter			
12	Fiber Connector SC/LC Patch Cords 3M, RJ-45 Jacks	6 Sets for 6 locations	/Per Set			
13	Power Boxes	6 Nos.				
14	25mm HDPE Pipe	Approx. 800 Meters*	/Per Meter			
15	25mm Medium Guage PVC	Approx. 800 Meters*	/Per Meter			
16	Installation, Programming & Net Working Charges for 32" LED monitors for online viewing at Directorate and Regional Managers Office.	3 Nos.	/Per Location			
17	Installation (including 6 No's 32" LED Monitors), Commissioning, Programming & Net Working Charges		/Per Location			
Total Amounts (Rs.):						
18	Soft soil digging, refilling, HDPE pipe ducting, fixing PVC and HDPE underground cables and labour charges (per meter)					/Per Meter

Note:- 1.Rates quoted should be inclusive transportation, handling charges etc.

2. Payment will be made based on actual running length at each location for the **item Nos.5, 8, 11, 14 and 15** above.

We agree and abide with the terms and conditions stipulated in the bid document.

Place:

Date :

Name:

Designation:

Signature of the Tenderer:

(Stamp/Seal of the Company)