

**THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD. UDAIPUR**



**TENDER NOTICE FOR  
SUPPLY, INSTALLATION & MAINTENANCE OF  
CCTV AND INTRUSION ALARM SYSTEM AT  
VARIOUS BRANCHES AND HEAD OFFICE OF  
UCCB**

**ADDRESS**

BAPU BAZAAR, UDAIPUR-313001, RAJASTHAN

Phone No. : 0294-2414853

Email ID : [ccb.udaipur@gmail.com](mailto:ccb.udaipur@gmail.com)

Web Site : [uccb.org.in](http://uccb.org.in)

**THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD. UDAIPUR  
BAPU BAZAAR, UDAIPUR PIN-313001,  
RAJASTHAN  
PH: +91-0294-2414853**

THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD. invites in two bid system from firms supply and maintaining CCTV System with **defective liability** and having their own Offices in RAJASTHAN for supply, installation and maintaining CCTV Systems at various branches of THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD.

Tender Forms can also be obtained from Head Office on payment of INR 500/- (Non-Refundable) by way of Demand Draft / Pay Order favoring THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD payable at UDAIPUR.

S.N.	SUBJECT	DATE / TIME
1	NIT No.	01/2019-20
2	Name of Work	Supply, Installation & Maintenance of CCTV and Intrusion Alarm System at 19 branches and HO of UCCB
3	Tender Value	18.00 Lacs
4	Earnest Money Deposit	36000.00
5	Tender Fee	500.00
6	Date of Commencement of Tender	25.10.2019
7	Last Date & Time of Submission of Bid	08.11.2019, 6:00 PM
8	Date & Time of Technical Bid Opening	02:00PM 11.11.2019
9	Date & Time of Financial Bid Opening	Real time after conclusion of technical bid.
10	Conduct of demonstration	Intimate later to finally qualified vendor.

Offers from firms not having their own offices in Rajasthan will not be considered. The Bank reserves the right to reject any/all applications without assigning any reason whatsoever.

## 1. TECHNICAL OFFER

### SECTION – I SCOPE OF WORK

Supply, Installation & Maintenance of CCTV and Intrusion Alarm System at various branches and Head Office of UCCB

### SECTION – II TERMS & CONDITIONS

- Installation and Commissioning of CCTV system and Intrusion Alarm System (per branch) should be completed within 45 days from issue of order. The orders for CCTV and Intrusion Alarm System would be placed as and when required by the Head Office for its different branches and Head Office within a period of one year.
- The actual quantity of systems to be installed may vary from the projected.
- Any delay in completion of the work over the stipulated period will attract penalty of 0.2% of the per system cost per day subject to maximum of 10% of the per system cost. The Bank reserves its right to recover these amounts by any mode, which includes adjusting from any payment to be made by the Bank to the supplier.

### ELIGIBILITY CRITERIA FOR SHORT-LISTING

The preliminary evaluation will be done on the following parameters and offers from firms not Conforming to any of these parameters will be rejected.

## 2.FINANCIAL & TECHNICAL PARAMETERS:

S NO	PARAMETER	REMARKS
1	Average annual turnover	The firms should have Audited sales turnover of INR 3 crore or above of last three Years FY 2016-17, 2017-18,2018-19) (Please attach a copy of audited Balance Sheet (CA certified)
2	Works executed in the last 3 years	Bidder should have experience of Supply & Installation of CCTV system in similar kind of institutions/ Govt. Organization. Govt work order copy along with completion certificate to be provided. Minimum INR 18 lacs of cost order copy along to be provided.
3	Own office and service centre	The firm should have its own office and Service Centre functioning in Rajasthan, not less than One years as on the date of commencement of issue of Tender Forms
4	Reference site	Furnish details like name, address and telephone Numbers of customers to whom CCTV systems have been supplied during the last 3 years. Minimum 3 Reference sites is required and work appreciation letter signed by at least managerial level of these organization.
5	No. of qualified engineers in	Mention number of qualified engineers of the firm. Minimum seven qualified engineers / technicians are required
6	Authorized Bidder/ OEM	An authorization letter from the OEM is required to submit on OEM letterhead addressing this tender, in case OEM is not participating directly. Without OEM letterhead bid rejected automatically.
7	Certifications Required	Camera and NVR should be UL, CE and FCC certified and also UL lab Report needs to be submitted

8	Compliance Required	Compliance statement for the following specifications should be attached; deviation & remarks shall be mentioned clearly. Data sheet of the quoted products should be provided along with the bid. conditional quotation shall not be allowed & rejected automatically.
9	ISO Certifications	CCTV product shall be manufactured by a make whose quality system is in compliance with the ISO-9001. ISO certificate from OEM and bidder to be submitted with bid.
10	Documents Required	(A) Bidder should be registered with GST department. Also, attached last year GST Returns copies. (B) OEM should not be blacklisted or banned by any Government tender in India or Globally.
11	Product Ranking of CCTV & NVR	Brand should be from top 10 IHS India Ranking Report at least last three years
12	Burning Warranty	In warranty period Camera & NVR should cover burned conditions
13	Taxes	The rates quoted shall be inclusive of all taxes
14	Signature	Bidder will sign at every page of this bid document for confirmation of understanding all terms and conditions.
15	Online Platform	Bidder will provide centralized monitoring system (online on network for every branch to head office) and related features enabled.

•All the documents from point 1 to 15 must be uploaded along with bid otherwise bid will be considered as rejected. Intending bidder should furnish details about their firm as per bidder's profile.

### 3. TWO BID SYSTEM OFFER

The offer will be in two parts; Technical & Financial. Both the parts should be submitted separately.

### 4. INITIAL SECURITY DEPOSIT

The successful bidder to whom the contract is awarded shall deposit as Initial Security Deposit by Bank Demand Draft a sum to make up 5% of the value of accepted tender. The successful tenderer shall pay Initial Security Deposit within 03 days after receiving the letter of acceptance of his tender. No interest shall be paid on this Security Deposit. The Security Deposit, either in whole or in part thereof, shall be forfeited in the event of the Vendor's failure to observe any terms of this Contract / or non-compliance with the conditions of the Contract. EMD amount will be returned to the contractor after remitting the full amount of the Initial Security Deposit by the bidder to the UCCB.

### 5. TECHNICAL OFFER (TO)

The Technical Offer (TO) should be complete in all respects and contains all information asked for in this document. It should not contain any price information. However TO should confirm that all required rates have been quoted in Financial Offer, without showing the actual amounts in the TO. It should clearly state the Make and Model of the products offered for which rates have been quoted by the tenderer in the Financial Bid. Any hardware accessories, software or operating system supplied free along with the system or at a cost must be indicated separately and specifically.

### 6. THE TECHNICAL OFFER SHOULD COMPRISE OF FOLLOWING:

- Covering letter on the prescribed format (Annexure-I).
- Supplier's profile as per Annexure II.

- Manufacturer authorization format Annexure III
- Declaration Annexure IV
- Technical Specifications complete with all rows/columns filled in [Annexure V].
- Documentation (Product Brochures, leaflets, manuals etc.)
- Details of reference customer with contact detail.
- Tender fee (INR 500/-) by agencies downloading application from website.
- EMD Amount DD

## **7. COMMERCIAL OFFER**

- The Commercial/Financial Offer (CO) should contain relevant price information and the rates should be quoted in Indian Rupees only. The CO should comprise the Commercial Version of Bill of Material as per BOQ/Annexure VI and must contain all the price information.
- The offer from the supplier should be for a specific model. THE BANK RESERVES THE RIGHT TO REJECT ANY OFFER WITH MULTIPLE OPTIONS.

## **8. PRICE COMPOSITION**

- The price quoted should be only in Indian rupees and inclusive of following Cost of the **CCTV System and Intrusion Alarm System** with accessories F.O.R. destination.
- Prices should be inclusive of GST and all any other taxes.
- Installation and commissioning charges, if any.
- Cost of training to be imparted is to be included in the prices quoted.
- One-year comprehensive onsite warranty maintenance covering all parts, service, and visits to the site. Post warranty comprehensive AMC for 3 years after defect liability period of 12 months (i.e. Warranty 1 years + AMC for 3 years = Total 4years) covering the entire CCTV System and Intrusion Alarm System encompassing all software/hardware items, accessories, spares and consumables.
- The Bank will shortlist suppliers, who satisfy technical and other requirements laid down in the document. The commercial offers of only the short-listed suppliers will be opened. Short listed suppliers will be notified by e-mail / post and the supplier / authorized representative may be present at the time of opening of the Technical and Commercial Offer(s).
- No advance will be paid by the bank. Bill to be submitted with duly receipted challan invoice for payment to individual branches.

## **9. NO ERASURES OR ALTERATIONS**

Technical / Commercial details must be completely filled up.

## **10. NO PRICE VARIATIONS**

The commercial offer shall be on a fixed price basis. No upward revision in the price will be considered on account of subsequent increase in customs duty, excise tax, sales tax, etc.

. However, if there is any reduction in government levies/taxes, during the offer validity period, the same shall be passed on to the Bank.

## **11. VALIDITY OF OFFER**

The offer should be valid for period for one year from the last date for submission of the offer.

## **12. EVALUATION PROCESS**

**Offers will be evaluated in the following stages:**

### **Stage I**

Offers will be evaluated against the stipulated minimum eligibility criteria. Offers not complying with the eligibility criteria will be rejected summarily.

### **Stage II**

A technical evaluation of proposals will be carried out. Offers received without fulfilling the following conditions shall not be evaluated.

1. If offer is incomplete and/or not accompanied by all stipulated documents.

2. If any of the terms and conditions stipulated in this document is not accepted and letter as per Annexure - I is not submitted.
3. If any of the specifications stipulated in Annexure III is not met.

**Stage III**

Short-listing of supplier(s) based on the technical evaluation.

**Stage IV**

Opening and normalization of commercial offers of the short-listed supplier(s).

**13. NO COMMITMENT TO ACCEPT LOWEST OR ANY TENDER**

The Bank shall be under no obligation to accept the lowest or any other offer received in response to this notice and shall be entitled to reject any or all offers without assigning any reasons whatsoever.

**14. OPENING OF OFFERS**

Technical Offers will be opened at 2:00 PM on 07-11-2019. The bidders / their representatives may be present at the time of opening of the Technical Offers. No separate intimation will be sent in this regard to the suppliers for deputing their representatives. The Technical Offers will be opened at the time and date stipulated above irrespective of the number of bidders or their representatives present.

**15. ORDER CANCELLATION**

If the vendor fails to deliver and/or install the equipment within the stipulated time schedule or the extended date communicated by the Bank, it will be a breach of contract. The Bank reserves the right to cancel the order in the event of delay in delivery / installation / commissioning of equipment and forfeit the Earnest Money Deposit or ISD whatever the case may be.

**16. PAYMENT TERMS**

No advance amount will be paid to suppliers. The Bill amount would be paid by individual branches after successful supply, installation, testing, commencement and functioning of the CCTV system.

**17. PERFORMANCE BANK GUARANTEE**

Successful supplier should produce an unconditional Performance Bank Guarantee from a Public Sector Bank or Scheduled Bank (other than THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR) equal to 10% of the total cost of the project and effective for the period of contract including AMC period of 3 years from the date of order (i.e. 1+3=4 years). During the period of contract including AMC period supplier should attend to all repairs / defects / replacement of major/minor spare parts free of cost. In case of failure on the part of the supplier to attend to the defects within a reasonable period, the Bank on its own will get the defects rectified through another agency at the risk and cost of supplier and repairs rectified through another agency in such circumstance will not affect the liabilities of the supplier on the warranty for its remaining period nor will it affect the supplier's liabilities on the stipulated post-warranty Annual Maintenance Contracts.

**18. GUARANTEES**

The CCTV System and Intrusion Alarm System including all components delivered to the Bank should be brand new. The supplier should also guarantee that all the software / components supplied by the supplier is licensed and legally obtained.

**19. AVAILABILITY OF SPARES**

Spares for the product offered should be available for at least 05 years, guarantee to this effect should be given by the manufacturer. The format attached as per attached format in annexure III.

## **20. WARRANTY**

- The offer must include comprehensive on-site warranty of one year from the date of installation and commissioning of the CCTV and Intrusion Alarm System with all necessary spare parts and accessories.
- Supplier shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of all equipment, accessories, etc., covered by the offer. The supplier must warrant all equipment, accessories, spare parts etc., against any manufacturing defects during the warranty period. During the warranty period the supplier shall maintain the equipment and repair / replace all the defective components at the installed site at no additional charge of whatsoever nature to the Bank.

## **21. MAINTENANCE STANDARD EXPECTED DURING WARRANTY**

The supplier should ensure that the defect in the CCTV System and Intrusion Alarm System reported on any working day is set right on the same day and in no case later than the next working day.

## **22. ANNUAL MAINTENANCE CONTRACT**

- Should the Bank decide to do so, the supplier is expected to maintain the CCTV System including all accessories/components and software supplied for at least three years after the expiry of warranty period (12 months). Comprehensive on-site maintenance charges, for the post warranty period, must be quoted in rupees per year in the Commercial Offer. During the warranty period and the comprehensive AMC period, the supplier is expected to visit the concerned branches at least once in a quarter for preventive maintenance/servicing and on call by the Bank any number of times in case of defects, if any, in the system without any additional cost to the Bank and the supplier shall maintain the equipment and repair/replace all defective components, major or minor and may use for this purpose spares or consumables at no additional charge other than the AMC contract charges. The AMC charges will be released in Four installments at the end of every 03 (Three) months period from the date of the expiry of warranty, on satisfactory performance of the CCTV System and Intrusion Alarm System and against submission of a service report.
- After the post-warranty mandatory comprehensive AMC period, the supplier may continue the Annual Maintenance Contract at the price/charges as may be mutually agreed upon by the Bank and the supplier. If any of the peripherals, components etc., are not available or difficult to procure or if the procurement is likely to be delayed, the replacement shall be carried out with equipment of equivalent capacity or higher capacity at no additional charges to the Bank during the currency of warranty period and AMC period.

## **23. RETRIVAL OF RECORDING ON CD/DVD/External HDD/etc.**

As per requirement of the Bank / Branch, if request is made by the Bank / Branch to the vendor for retrieving recording for a particular time period and preparing a CD/DVD/External HDD/Etc. of the same, the vendor would make arrangements to retrieve and provide such recording on CD/DVD/External HDD/Etc. within 24 Hours of the request made. The vendor will be paid by the Bank / Branch an amount of INR 500/- per such retrieval, which will be over and above the AMC charges. The CD/DVD/External HDD/Etc. would be provided by the Bank /Branch for the purpose.

## **24. Conduct of Demonstration**

Successful bidder has to arrange demonstration to bank committee and final decision will depend on successful demonstration report.

**Annexure – I**

**(Letter to the bank on the Supplier's letterhead)**

THE MANAGING DIRECTOR  
THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD (UCCB)  
BAPU BAZAAR, UDAIPUR-313001,  
RAJASTHAN

Dear Sir,

**Sub: Your tender notice no. \_\_\_\_\_ dated \_\_\_\_\_ for supply & installation of CCTV System and Intrusion Alarm System at bank branches and Head Office.**

With reference to the above tender notice, having examined and understood the instructions, terms and conditions forming part of the tender forms, we hereby enclose our offer for the supply of the CCTV Systems and Intrusion Alarm System as detailed in your above referred tender notice.

We confirm that we have not been disqualified by any PSU bank for supply of CCTV Systems Intrusion Alarm System.

We further confirm that the offer is in conformity with the terms and conditions as mentioned in the tender form.

We also confirm that the offer shall remain valid for 90 days from the last date for submission of the offer.

We understand that the Bank is not bound to accept the offer either in part or in full and that the Bank has the right to reject the offer in full or in part without assigning any reason whatsoever.

We enclose herewith Tender Fee INR 500/- (Non Refundable) favoring THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD payable at UDAIPUR

Yours faithfully,  
Authorized Signatories  
(Name & Designation, seal of the firm)



**Annexure - II**

**SUPPLIER PROFILE**

- Name of the Organization and Address:
- Year of Establishment:
- Status of the firm: (Whether Pvt. Ltd. company / Public Ltd. company/ Partnership Firm / Proprietorship Firm)
- Name of the Chairman/Managing Director/CEO/Country Head/ Authorized signatory):
- Whether registered with the Registrar of Companies/Registrar of Firms in India. If so, mention number and date and enclose Registration Certificate copy.
- a) Name and address of Bankers:
- b) Turnover of the Company/Firm in the financial years 2016-17, 2017-18 and 2018-19:  
(Please attach a copy of audited Balance Sheet (CA certified) and Profit & Loss statement for the financial years 2016-17, 2017-18 and 2018-19)
- Whether an assessment of Income Tax. If so, mention Permanent Account Number. Furnish copies of Income tax clearance certificate for FY2016-17, 2017-18 and 2018-19.
- **Details of Technical Staff in**

S.N.	Name	Qualification	Experience

Special Terms & Conditions (List of Enclosures): -

- Camera and NVR should be UL, CE and FCC certified and also UL lab Report needs to be submitted.
- Compliance statement for the following specifications should be attached; deviation & remarks shall be mentioned clearly. Data sheet of the quoted products should be provided along with the bid.
- CCTV product shall be manufactured by a make whose quality system is in compliance with the ISO-9001. ISO certificate from OEM and bidder to be submitted with bid.
- Bidder should be registered with GST department. Iso, attached last year GST Returns copies.
- An authorization letter from the OEM is required to submit on OEM letterhead addressing this tender, in case OEM is not participating directly. Without OEM letterhead bid rejected automatically.
- Bidder should have experience of Supply & Installation of CCTV system in similar kind of institutions/ Govt. Organization. Govt work order copy along with completion certificate to be provided. Minimum INR 18 lacs of cost order copy a long to be provided.
- OEM & Bidder should not be blacklisted or banned by any Government Tender in India or Globally
- Brand should be from top 10 IHS India Ranking Report at least last three years.
- Demonstration to be given as and when required. Schedule for the same will be informed in advance.
- Bidder need to submit duly filled compliance sheet and should quote complete System, conditional quotation shall not be allowed & rejected automatically.
- The firms should have Audited sales turnover of INR 3 crore or above of last three Years FY 2016-17, 2017-18, 2018-19 (Please attach a copy of audited Balance Sheet (CA certified))
- The Financial bids of only those bidders who qualify in technical bid Evaluation by the concerned committee shall be opened. The financial bids of Those bidders who have failed to qualify in the technical bid will not be Opened under any circumstances.
- The rates quoted shall be inclusive of all taxes.
- After completion of work Maintenance period will be 1 years
- Burning Warranty to be provided on NVR & Cameras.

Note: In absence of any of the above enclosures, your bid is likely to be rejected.

**MANUFACTURER'S AUTHORIZATION FORM (MAF)**

THE MANAGING DIRECTOR,  
THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD (UCCB)  
BAPU BAZAAR, UDAIPUR-313001,  
RAJASTHAN

Dear Sir,

Sub: Your tender notice no. \_\_\_\_\_ dated \_\_\_\_\_ for supply & installation of CCTV System at bank branches.

We, M/s. \_\_\_\_\_ who are established and reputed Manufacturers of \_\_\_\_\_ having registered office / factories at \_\_\_\_\_ and \_\_\_\_\_ do hereby authorize M/s. \_\_\_\_\_ (Name and address of bidder) to offer their quotation and conclude the contract with you against the above invitation for the Bid.

We hereby confirm that the CCTV System including all components delivered to the bank will be brand new. We also guarantee that all the software / components supplied by the supplier is licensed and legally obtained.

We, hereby, extend our full guarantee and comprehensive warranty as per terms and conditions of the Tender for our products offered against this invitation for Bid by the above firm. We, hereby confirm that the spares for the product offered should be available for after sales service for at least 05 years from the date of tender.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

Authorized Signatory Signature:

Name:

Designation:

Name of the Company:

Seal of the Company

\* To be submitted on Company letter head duly signed by the Authorized signatory of Company.

## **Annexure IV**

### **DECLARATION**

- I / We have read the instructions appended and all terms and conditions and I /We understand that if any false information is detected at a later date, any future contract made between ourselves and THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD, on the basis of the information given by me / us can be treated as invalid by the Bank and I / We will be solely responsible for the consequences.
- I / We agree that the decision of THE UDAIPUR CENTRAL CO-OPERATIVE BANK LTD UDAIPUR LTD in selection of contractors will be final and binding to me / us.
- All the information furnished by me hereunder is correct to the best of my knowledge and belief.
- I / We agree that I / we have no objection if enquiries are made about the work listed by me / us in the accompanying sheets.
- I / We agree that I / We have not applied in the name of sister concern for the subject empanelment process.

Place:

SIGNATURE

Date:

NAME & DESIGNATION  
SEAL OF ORGANISATION

## Technical Specifications

Annexure V

### 2MP WDR Vandal-resistant Network IR Fixed Dome

Make & Model No. \_\_\_\_\_

Sr.No	General Specification	Technical Specification	Compliance (yes/no)	Remark if any
1	Sensor	1/2.8", 2.0-megapixel, progressive scan, CMOS		
2	Lens	2.8mm@F1.6		
3	Angle of View (H)	112.7°		
4	Angle of View (V)	60.1°		
5	Angle of View (O)	146.5°		
6	Adjustment angle	Pan: 0° ~ 360° Tilt: 0° ~ 75° Rotate: 0° ~ 360°		
7	shutter	Auto/Manual, 1 ~ 1/100000s		
8	Minimum Illumination	Colour: 0.003Lux (F2.0, AGC ON) 0Lux with IR		
9	Day/Night	IR-cut filter with auto switch (ICR)		
10	Digital noise reduction	2D/3D DNR		
11	S/N	>52 dB		
12	IR Range	Up to 30m (98ft) IR range		
	WDR	120dB		
13	Defog	Digital Defog		
video				
14	Video Compression	Ultra 265, H.264, MJPEG		
15	H.264 code profile	Baseline profile, Main Profile, High Profile		
16	Frame Rate	Main Stream: 2MP (1920*1080), Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps		
17	HLC	Supported		
18	BLC	Supported		
19	9:16 Corridor Mode	Supported		
20	OSD	Up to 8 OSDs		
21	Privacy Mask	Up to 8 areas		
22	ROI	Up to 8 areas		
23	Motion Detection	Up to 4 areas		
Audio				
24	Audio Compression	G.711		
25	Two-way audio	Supported		

26	Suppression	Supported		
27	Sampling Rate	8KHZ		
Storage				
28	Edge Storage	Micro SD, up to 256GB		
29	Network Storage	ANR		
Network				
30	Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS		
31	Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API		
Interface				
32	Audio I/O	Input: impedance 35k $\Omega$ ; amplitude 2V [p-p] Output: impedance 600 $\Omega$ ; amplitude 2V [p-p]		
33	Alarm I/O	(1/1)		
34	Network	1 RJ45 10M/100M Base-TX Ethernet		
General				
35	Power	DC 12V $\pm$ 25%, PoE (IEEE 802.3af)		
		Power consumption: Max 4W		
36	Dimensions ( $\emptyset$ x H)	$\Phi$ 108.5 x 81mm ( $\emptyset$ 4.28" x 3.2")		
37	Weight	0.45kg (0.99lb)		
38	Working Environment	(-35 $^{\circ}$ C ~ 60 $^{\circ}$ C (-31 $^{\circ}$ F ~ 140 $^{\circ}$ F), Humidity: $\leq$ 95% RH (non-condensing)		
39	Ingress Protection	IP67		
40	Vandal Resistant	IK10		
41	Certification	CE,FCC,UL,IK10,IP67		

## 2MP Vandal-resistant IR Fixed Mini Dome Camera

Make & Model No. \_\_\_\_\_

Sr.No	General Specification	Technical Specification	Compliance (yes/no)	Remark if any
1	Sensor	1/2.9", 2.0 megapixel, progressive scan, CMOS		
2	Lens	2.8mm@F2.0Lens (mm)		
3	Angle of View (H)	107.8°		
4	Angle of View (V)	56.7°		
5	Angle of View (O)	140.2°		
6	Adjustment angle	Pan: 0° ~ 90° Tilt: 0° ~ 65° Rotate: 0° ~ 360°		
7	Shutter	Auto/Manual, 1 ~ 1/10000s		
8	Minimum Illumination	Colour: 0.005Lux (F2.0, AGC ON) 0Lux with IR		
9	Day/Night	IR-cut filter with auto switch (ICR)		
10	Digital noise reduction	2D/3D DNR		
11	S/N	≥52dB		
12	IR Range	Up to 15m (49ft) IR range		
13	Defog	Digital Defog		
14	WDR	DWDR		
Smart				
15	Video Compression	Ultra 265, H.264, MJPEG		
16	H.264 code profile	Baseline profile, Main Profile, High Profile		
17	Frame Rate	Main Stream: 2MP (1920*1080), Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps		
18	HLC	Supported		
19	BLC	Supported		
20	9:16 Corridor Mode	Supported		
21	OSD	Up to 8 OSDs		
22	Privacy Mask	Up to 8 areas		
23	ROI	Up to 8 areas		
24	Motion Detection	Up to 4 areas		
Smart				
25	Behavior Detection	Intrusion, cross line, motion detection		
26	Intrusion	Enter and loiter in a pre-defined virtual region		

27	cross line	Cross a pre-defined virtual line		
28	motion detection	Moving within a pre-defined virtual region		
29	Recognition	Face detection, Audio detection		
30	Intelligent Identification	Defocus, Scene Change, Object Left, Object Moving		
31	Statistical Analysis	People counting		
32	General Function	Watermark, IP Address Filtering, Tampering Alarm, Access Policy, ARP Protection, RTSP Authentication, User Authentication		
Audio				
33	Audio Compression	G.711		
34	Two-way audio	Supported		
35	Suppression	Supported		
36	Sampling Rate	8KHZ		
Storage				
37	Edge Storage	Micro SD, Up to 256GB		
38	Network Storage	ANR		
Network				
39	Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS		
40	Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API		
Interface				
41	Audio I/O	audio cable		
		Input: impedance 35k $\Omega$ ; amplitude 2V [p-p]		
		Output: impedance 600 $\Omega$ ; amplitude 2V [p-p]		
42	Built-in Mic	Supported		
43	Network	1 RJ45 10M/100M Base-TX Ethernet		
General				
44	Power	DC 12V $\pm$ 25%, PoE (IEEE 802.3af)		
		Power consumption: Max 4.5W		
45	Dimensions ( $\Phi$ x H)	$\Phi$ 110 x 61mm ( $\Phi$ 4.3" x 2.4")		
46	Weight	0.25kg (0.55lb)		
47	Working Environment	-35 $^{\circ}$ C ~ 60 $^{\circ}$ C (-31 $^{\circ}$ F ~ 140 $^{\circ}$ F), Humidity: $\leq$ 95% RH (non-condensing)		
48	Ingress Protection	IP67		
49	Vandal Resistant	IK10		
50	Certificate	CE,FCC,UL,IP67		



**4MP WDR Vandal-resistant Network IR Bullet Camera**

**Make & Model No.** \_\_\_\_\_

General Specification	Technical Specification	Compliance (Yes / No)	Remarks if any
Sensor	1/3",progressive scan, 4.0 megapixel, CMOS		
Lens	2.8mm@F2.0		
Angle of View (H)	104.4°		
Angle of View (V)	67°		
Angle of View (O)	135.7°		
Adjustment angle	Pan: 0°~360°		
	Tilt: 0°~90°		
	Rotate: 0°~360°		
Shutter	Auto/Manual, 1 ~ 1/100000s		
Minimum Illumination	Colour: 0.03 Lux (F2.0, AGC ON) 0 Lux with IR		
Day/Night	IR-cut filter with auto switch (ICR)		
Digital noise reduction	2D/3D DNR		
S/N	>55 dB		
IR Range	Up to 30m (98 ft) IR range		
Defog	Digital Defog		
WDR	120dB		
Video Compression	Ultra 265,H.265, H.264,MJPEG		
H.264 code profile	Baseline profile, Main Profile, High Profile		
Frame Rate	Main Stream:4MP (2592×1520): Max. 20 fps, 4MP (2560×1440): Max. 25 fps, 3MP (2048×1520): Max. 30 fps;		
	Sub Stream:2MP (1920×1080): Max. 30 fps;		
	Third Stream:D1(720×576) : Max. 30fps		
HLC	Supported		
BLC	Supported		
9:16 Corridor Mode	Supported		
OSD	Up to 8 OSDs		
Privacy Mask	Up to 8 areas		

ROI	Up to 8 areas		
Motion Detection	Up to 4 areas		
motion detection	Moving within a pre-defined virtual region		
General Function	Watermark, IP Address Filtering, Tampering Alarm, Alarm input, Alarm output, Access Policy, ARP Protection, RTSPAuthentication, User Authentication		
Audio Compression	G.711		
Two-way audio	Supported		
Suppression	Supported		
Sampling Rate	8 KHZ		
Edge Storage	Micro SD, up to 256 GB		
Network Storage	ANR		
Network			
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP		
Compatible Integration	ONVIF(Profile S, Profile G), API		
Interface			
Audio I/O	Input: impedance 35 kΩ; amplitude 2 V *p-p]		
	Output: impedance 600 Ω; amplitude 2 V *p-p]		
Alarm I/O	1-In / 1-out		
Network	1 RJ45 10M/100M Base-TX Ethernet		
Power	12 V DC±25%, PoE (IEEE802.3 af)		
	Power consumption: Max 5.5W		
Dimensions (Ø x H)	Φ108.5 x 81 mm (Ø4.28" x 3.2")		
Weight	0.45 kg (0.99 lb)		
Working Environment	-35°C ~ +60°C (-31°F ~ 140°F), Humidity:10%~95% RH(non-condensing)		
Ingress Protection	IP67		
Vandal Resistant	IK10		
Certifications Mandatory	UL,RoHS, CE,FCC,Ip67, Enviromental Test Report,IK10		

## 9 Channel 2 HDDs NVR

Make & Model No. \_\_\_\_\_

Sr.No	General Specification	Technical Specifiaction	Compliance(yes/no )	Remark if any
Video/Audio Input				
1	IP Video Input	9-ch		
2	Two-way Audio Input	1-ch, RCA		
Network				
3	Incoming Bandwidth	90Mbps		
4	Outgoing Bandwidth	180Mbps		
5	Remote Users	128		
6	Protocols	P2P, UPnP, NTP, DHCP, PPPoE		
Video/Audio Output				
7	HDMI/VGA Output	HDMI: 4K (3840x2160) /60Hz, 4K (3840x2160) /30Hz, 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz VGA: 1920x1080p /60Hz, 1920x1080p /50Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz		
8	Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF		
9	Audio Output	1-ch, RCA		
10	Synchronous Playback	9-ch		
11	Corridor Mode Screen	3/4/5/7/9		
Decoding				
12	Decoding format	Ultra 265, H.265, H.264		
13	Live View/ Playback	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF		
14	Capability	3 x 12MP@25, 4 x 4K@30, 9 x 4MP@25, 16 x 1080p@30		
Hard Disk				
15	SATA	2 SATA interfaces		
16	Capacity	up to 10TB for each disk		
External Interface				

17	Network Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet Interfaces		
18	Serial Interface	1 x RS485		
19		Front panel: 1 x USB2.0		
20	USB Interface	Rear panel: 1 x USB2.0, 1 x USB3.0		
21	Alarm In	8-ch		
22	Alarm Out	2-ch		
General				
23	Power Supply	12V DC		
		Power Consumption: ≤ 20 W( without HDD )		
24	Working Environment	-10°C ~ + 55°C ( +14°F ~ +131°F ), Humidity ≤ 90% RH(non-condensing)		
25	Dimensions(W×D×H)	380mm × 315mm × 46mm ( 15.0" × 12.4" × 1.8" )		
26	Weight ( without HDD )	≤ 2.48 Kg ( 5.47 lb )		
27	Certificate	CE,FCC,UL		

16 Channel 4 HDDs 4K NVR

Make & Model No. \_\_\_\_\_

General Specification	Technical Specification	Compliance (Yes / No)	Remarks If any
Video/Audio Input			
IP Video Input	16-ch		
Two-way Audio Input	1-ch, RCA		
Network			
Incoming Bandwidth	320Mbps		
Outgoing Bandwidth	320Mbps		
Remote Users	128		
Protocols	P2P, UPnP, NTP, DHCP, PPPoE,SSL,TLS,SNMP,HTTPS		
Video/Audio Output			
HDMI/VGA Output	HDMI1/VGA: 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz HDMI2:4K (3840x2160) /60Hz, 4K (3840x2160) /30Hz, 1920x1080p /60Hz, 1920x1080p /50Hz, 1600x1200 /60Hz, 1280x1024 /60Hz, 1280x720 /60Hz, 1024x768 /60Hz		
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D 1/2CIF/CIF		
Audio Output	1-ch, RCA		
Synchronous Playback	16-ch		
Corridor Mode Screen	3/4/5/7/9/10/12/16/32		
Decoding			
Decoding format	Ultra 265, H.265, H.264		

Live view/ Playback	12MP/8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF		
Capability	3 x 12MP@25, 4 x 4K@30, 8 x 4MP@30, 16 x 1080p@30, 32 x 960p@25		
Hard Disk			
SATA	4 SATA interfaces		
Capacity	up to 10TB for each HDD		
Smart			
VCA Detection	Face detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking		
VCA Search	Face search, Behavior search		
Statistical Analysis	People counting		
External Interface			
Network Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet Interfaces		
Serial Interface	1 x RS485		
USB Interface	Front panel: 1 x USB2.0 Rear panel: 1 x USB2.0, 1 x USB3.0		
Alarm In	16-ch		
Alarm Out	4-ch		
General			
Power Supply	12V DC Power Consumption: ≤ 12W( without HDD )		
Working Environment	-10°C ~ + 55°C ( +14°F ~ +131°F ), Humidity ≤ 90% RH(non-condensing)		
Dimensions(W×D×H)	440mm × 344mm× 44mm ( 17.3" × 13.5"×1.7" )		
Weight ( without HDD )	≤ 3.14 Kg ( 6.92 lb )		
Certification	CE,UL,FCC		

**TECHNICAL SPECIFICATIONS FOR SECURITY ALARM SYSTEM WITH INTEGRATED AUTO DAILER**

Sr	Parameters	Specifications	Compliance(Yes/NO)
	<b>Companyname/ Model</b>		
1	Security Alarm Control Panel – <b>GSM Based</b>	<p><b>12 ZONE GSM CONTROL PANEL</b>                      Micro-controller based                      12 wired zones                      Inbuilt GSM based speech and SMS dialer module                      Separate remote key pad with 16x4 LCD display and 16 key back lit key pad                      Can attach up to 3 additional LCD display remote key pads                      Android app to operate and program panel                      1 admin code and 3 user codes                      Auto reset after activation                      3 sub partitions with programmable schedule                      Scheduled partitions and zones                      Automatic arming or disarming, optional and programmable                      One day holiday programmable for automatic disarming feature                      GSM dialer module supports 2 speech / voice messages                      Separate intrusion message                      Separate fire message                      10 telephone numbers for intrusion message                      10 telephone numbers for fire message                      20 second recording time for each message                      Multiple Alarm and Status SMS                      Alarm SMS with alarm type, zone number, time and date information                      Alarm SMS types - intrusion alarm, panic alarm, fire alarm, tamper and wrong code                      Status SMS sent to admin user on first number - system arm, admin disarm, user disarm, system on, AC power on, AC power off, low battery, admin or user code change, telephone numbers added, telephone numbers deleted, daily health status.                      Daily System On health status SMS sent once a day to admin user on first number                      Power status SMS for AC power on/off, low battery                      User editable name and address for alarm SMS                      Message playback                      Android App is SMS based, no internet required for daily use                      All key panel functions and features programmable from app                      All alarm alerts and status events received, displayed and logged in the app                      Panel can also be operated through mobile via simple SMS commands</p>	

		<p>Automatic temporary bypass of open 24 hour zones in case of open zone</p> <p>Detectors connected to fire zones are automatically reset after one hour in case of an alarm</p> <p>Built in provision for 12V 7AH SMF battery</p> <p>Zone omitting facility</p> <p>Silent arming</p> <p>Night mode arming</p> <p>Intrusion log with time and date</p> <p>500 Event log for alarms and menu access</p> <p>Open and close information for alarm zones</p> <p>Dedicated panic, fire and quick arm keys</p> <p>Silent dialing</p> <p>Power failure indication</p> <p>Battery strength display on LCD display</p> <p>Blown fuse indication on LCD display</p> <p>Last open zone status is indicated on LCD display</p> <p>GSM signal strength display</p> <p>3 status LED – Mains, SMS/Dialing &amp; ARM</p> <p>Automatic re-arming after an intrusion</p> <p>System goes into alarm state after three incorrect code attempts</p> <p>Previous state (armed or disarmed) retained when panel is re-powered</p> <p>Independent entry delay time 2 to 255 seconds</p> <p>Independent exit delay time 2 to 255 seconds</p> <p>Sounder time 2 to 20 minutes</p> <p>Non-volatile memory</p> <p>Inbuilt SMPS with short circuit, over load and thermal shut down protection</p> <p>Inbuilt tamper switch and vibration detector for advanced tamper detection</p> <p>Remote key pad housed in sleek white ABS body with key pad cover</p> <p>Main control station panel in ABS body</p>	
2	<p>IP compatibility</p> <p>In-Built Auto Dialer</p>	<p>TheAlarmsystemmustbeIPcompatibleforfutureCMS</p> <p>Built in Auto dialer (GSM), alert testmode,emergency alarm, alarm Acknowledgement,Tamperproof.</p>	
3	<p>Auto Dialer Should Have Following Features :</p>	<p>Minimum 2 voice message (Separate for Intrusion and Separate for Fire)</p> <p>15 Telephone Numbers for Intrusion Message and 15 Telephone Numbers for Fire Message</p> <p>20 seconds recording time for each message</p> <p>Dialing to all numbers can be aborted with master</p>	



		code during call Message playback facility Telephone number check facility. Telephone number editing facility.	
4	Panic Button	Micro Switch Technology Automatic reset (no key required) In Built Tamper Switch Sturdy Steel Finish	
5	Magnetic Contact	4 Wire Opening Gap 15mm Epoxy Based Filling Black and White ABS Body	
6	PIR Motion Sensor	Digital Quad Technology Sensor ntelligent Pet Immunity Detection range up to 12m Detection angle 85° Creep zone view: Detection range starts from just 1 meter from the sensor Unique Temperature Compensation Logic 3 level sensitivity Control for PIR function Advanced Sealed Optics Silent output (No Mechanical Relay Used) Walk Test Wall Mounted Inbuilt Tamper Switch	
7	Vibration Sensor	Micro Controller Based – Digital Multi Function Detector Detects Vibration, Breaking Of Glass, Cutting Of Metal Grills/Aluminum Frames, Drilling Operates on multiple advanced detection logics for added security. Sensor is triggered if 3 knocks are detected within 30 seconds (subject to knocks being equal to or higher than set sensitivity level). Sensor is triggered if a big knock (2X or higher than set sensitivity level) is detected. Sensor is triggered if continuous vibration is detected for 5 seconds. Any one detection logic required to trigger the sensor. High-Low Sensitivity Adjustment Jumper Further Sensitivity Adjustment Preset. Aesthetic Compact Design For Variable Installation No Moving Parts	
8	Shutter Contact	Glass filled nylon body 4 wire (2 Tamper wire, 2 zone wire) Contact rating 10w Opening gap 50mm	

9	Hooter	<p>High power 130 db  4 wired (with tamper loop)  Low current consumption  Available in 12V DC and 24V DC  Available in white, black and red ABS bodies  Available in multiple tones  Weatherproof housing</p>	
10	Cash Cabin Door Alarm	<p>Microcontroller Based  Inbuilt Magnetic Contact  Sounds Buzzer Beep Discontinuously When Door Is Opened  Buzzer Alarm is Silenced When Door Is Closed  External Power Supply Adaptor For Enhanced User Safety  3 LED Indicators</p>	
11	Self-Actuating Bell	<p>Outdoor battery backup siren with flash light  Double Housing  Continuous frequency modulated sound.  Tamper protection in 3 ways - Screw or cover opening or tearing housing from the wall  Siren period can set as follow trigger 3min cut off  Trigger input to activate only the flash light  Alarm by main power failure  Protection against totally battery discharge  Plug terminal for easy installation  Environmental immunity  Waterproof  Metal cover Inside for Extra protection  Available in White colour  High power 128db  Positive/ Negative Siren Trigger  Inbuilt Battery</p>	

## Approved Make

Approved Make				
S. No.		Make	Make Name	Yes/No
1	Camera & NVR	Pelco/Axis/UNV/HIKVISION/HONEYWELL/SONY		
2	Hard Disk	Seagate/Toshiba/WD		
3	Network POE Switch	Cisco/Net Gear/AirPro		
4	Network Rack	Net Rack/Com Rack/Dynamic		
5	CAT 6 Cable	Tyco/UNV/Molex		
6	LED Monitor 21.5 inch	Dell/HP/Lenovo		
7	Power Cable	Kay-Kay/Polycab/Finolex		
8	1" PVC Conduit	Medium grade reputed make with ISI mark		
9	43" Full HD LED TV	LG/TCL/VU/SONY		
10	IP 55 Camera Junction Box	Medium grade reputed make with ISI mark		
11	12 VA 7AH Battery	Amaron/Exide/Luminous		
12	8 Core Wire for Intrusion Alarm	Kay-Kay/PolyCab /Finolex		

COMMERCIAL/FINANCIAL OFFER													
BILL OF MATERIAL AND PRICE SCHEDULE // BOQ - Bill of Quantity													
Price for one CCTV system including all items as described below per ITEM													
S. No.	DESCRIPTION	UNIT	QTY	MAKE & MODEL NO. as per approved/preferred makes	Whatever it is totally in compliance with bid item Yes/NO	RATE		TAX%		TAX PAID RATE		TOTAL	
						In Figure	In Words	In %	In Amt			In Figure	In Words
1	Supply Installation, Testing & Commissioning of 2MP WDR Vandal-resistant Network IR Fixed Dome Camera. Day/night functionality, Smart IR, up to 30m (98ft) IR distance, Car-grade LEDs, brighter and uniform light compensation, Up to 120 dB WDR (Wide Dynamic Range), 1/2.7", progressive scan, CMOS Up to 1920x1080 resolution, 30fps, 2.8mm/4.0mm optional, Smart IR, up to 30m IR distance, 2D/3D DNR, ROI, Corridor Mode, Ultra 265, H.265, vandal resistant, DC12V, PoE. Wide voltage range of $\pm 25\%$ , IP67, Wide temperature range: $-35^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ( $-31^{\circ}\text{F} \sim 140^{\circ}\text{F}$ ), * 3-Axis, IK10 vandal resistant, ONVIF Compliant, UL, CE and FCC Certification as per technical specifications and approved makes	Nos.	40										
2	Supply Installation, Testing & Commissioning of 4MP WDR Network IR Bullet Camera, Vandal-resistant, Network IR Fixed Bullet Camera, 1/3" CMOS, ICR, 2592*1520: 20fps; 2560*1440: 25fps, Ultra 265/H.264/MJPEG, Triple streams, DC12V & PoE, 120dB WDR, IP67, Fixed lens (3.6mm, 6mm, 12mm), IR range: up to 30m, IR anti-reflection window, Built-in bracket, 12V, PoE. Wide voltage range of $\pm 25\%$ , IP67, Wide temperature range: $-35^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ( $-31^{\circ}\text{F} \sim 140^{\circ}\text{F}$ ), * 3-Axis, IK10 vandal resistant, ONVIF Compliant, UL, CE and FCC	Nos.	25										

	Certificationas per technical specifications and approved makes											
3	Supply Installation, Testing & Commissioning of 2MP Vandal-resistant IR Fixed Mini Dome Camera, 1/2.9",progressive scan,CMOS,Up to 1920×1080 resolution,30fps,2.8mm/4.0mm optional,Smart IR, up to 15m IR distance• 2D/3D DNR, ROI,Corridor Mode,Ultra265,H.265,ONVIF,DC12V,PoE.Wide voltage range of ±25%, IP67, IK10 vandal resistant, ONVIF Compliant, UL, CE and FCC Certificationas per technical specifications and approved makes	Nos.	19									
4	Supply, Installation, Testing & Commissioning of 9 Channel 2 HDDs NVR, Support Ultra 265/H.265/H.264 video formats,9/16-channel input,Third-party IP cameras supported with ONVIF conformance: Profile S, Profile G, Profile T Support 1-ch HDMI, 1-ch VGA, HDMI at up to 4K(3840x2160) resolution,Up to 12 Megapixels resolution recording,2 SATA HDDs, Up to 10TB for each disk Various fisheye dewarping modes for live view and playback for both web interface and GUI, ANR technology to enhance the storage reliability when the network is disconnected,Support cloud upgrade Supported. UL, CE and FCC Certificationas per technical specifications and approved makes	Nos.	19									
5	Supply, Installation, Testing & Commissioning of 16 Channel 8 HDDs 4K NVR,Support Ultra H.265/H.265/H.264 video formats,32 channel input,Third-party IP cameras supported with ONVIF conformance: Profile S, Profile G, Profile T,Support 2-ch HDMI, 1-ch VGA, 1-ch CVBS, HDMI2 at up to 4K(3840x2160) resolution, HDMI1/VGA and HDMI2 independent outputs provided, Up to 12 Megapixels resolution recording, Support RAID 0, 1, 5, 6,10 8 SATA HDDs, Up to 10TB for each HDD, Various fisheye dewarpingmodes for live view and playback for both web interface and	Nos.	1									

	GUI,Support N+1 Hot spare, Support for 12V Power output, ANR technology to enhance the storage reliability when the network is disconnected, Support cloud upgrade Support OSD function, Support PTZ control function, Support export system log, Support different user authorized level, Can install in rack cabinet 19". UL, CE and FCC Certifications per technical specifications and approved makes											
6	Supply and Fixing of 4TB 3.5" SATA type Surveillance Hard Diskas per technical specifications and approved makes	Nos.	21									
7	Supply and Fixing of 21.5 inch Monitor Full HD with HDMI Port & Cable as per technical specifications and approved makes	Nos.	19									
8	Supply, Installation. Testing&Commissioning GIGABIT AP-ESG1918P, 16GE+2SFP Rackmount Switch with 16-Port PoE provides the seamless network connection. It integrates 16*100/1000Mbps Ethernet capabilities and 2 Gigabit SFP slots for Uplink connection. 16 Auto-Negotiation RJ45 ports of the switch support Power over Ethernet (PoE) function. These PoE ports can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PDs). In this situation, the electrical power is transmitted along with data in one single cable allowing you to expand your network where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras or IP Phones, etcas per technical specifications and approved makes	Nos.	1									
9	Supply Installation, Testing & Commissioning of 10-Port 48V 100Mbps Long Range (250 meter) PoE Switch with 8-Port PoE,10 100Mbps Ports with 8 PoESupports 250meters Long-Range PoEtransmit, SupportsPoE IEEE 802.3af/at compliant PDs,Internal power supply 150W,Support Port Vlan(Port isolation)LED indicators for LINK/ACT, Power, PoE Status, 100Mbps,4K entry MAC address	Nos.	19									

	table with auto-learning and auto-aging, Rack Mountables per technical specifications and approved makes											
10	Supply and fixing of 4U networking rack with fan, tray, PDU and other required accessories as per technical specifications and approved makes	Nos.	19									
11	Supply, Installation, Testing & Commissioning Of 22 U Network Rack With Fan, PDU & Other Required Accessories as per technical specifications and approved makes	Nos.	1									
12	Supply, drawing and testing of 4 pair, CAT 6A FTP - Foiled Twisted Cable as per latest amendments of TIA /EIA 568 C.2 as per technical specifications and approved makes	Meter	3000									
13	Supplying and drawing of ISI marked 2 core 1.5sqmm power cables as per technical specifications and approved makes	Meter	1000									
14	SITC of 43" LED TV Android, Full HD With Mounting Stand & HDMI Cable as per technical specifications and approved makes	Nos.	2									
15	Supplying and drawing of 1" conduit pipe With Band, Junction for drawing of power and CAT6 cables as per technical specifications and approved makes	Nos.	1									
16	SITC Of Junction Box For IP Network Camera IP 55	Nos.	85									
17	AMC For All Branches & HO For 3 Year	Nos.	1									

**COMMERCIAL OFFER**

**BILL OF MATERIAL AND PRICE SCHEDULE**

Price for one CCTV system including all items as described below per ITEM

S. No.	DESCRIPTION	UNIT	QTY	MAKE & MODEL NO. as per approved/preferred makes	Whatever it is totally in compliance with bid item Yes/NO	RATE		TAX%		TAX PAID RATE		TOTAL	
						In Figure	In Words	In %	In Amt			In Figure	In Words
1	Supply Installation Testing and Commissioning of INTRUDER ALLARM SYSTEM PANNEL as per technical specifications and approved makes	Nos.	1										
2	Supply Installation Testing and Commissioning of INTRUDER ALLARM MAGNETIC CONTACT as per technical specifications and approved makes	Nos.	1										
3	Supply Installation Testing and Commissioning of INTRUDER ALLARM MULTI FUNCTION DETECTOR as per technical specifications and approved makes	Nos.	1										
4	Supply Installation Testing and Commissioning of INTRUDER ALLARM HEAVY DUTY SHUTTER CONTACT as per technical specifications and approved makes	Nos.	1										



5	Supply Installation Testing and Commissioning of INTRUDER ALLARM QUAD P.I.R. MOTION SENSOR as per technical specifications and approved makes	Nos.	1									
6	Supply Installation Testing and Commissioning of INTRUDER ALLARM PANIC SWITCH as per technical specifications and approved makes	Nos.	1									
7	Supply Installation Testing and Commissioning of INTRUDER ALLARM SOUNDER WITH STROBE LIGHT as per technical specifications and approved makes	Nos.	1									
8	Self-Actuating Bell	Nos	1									
9	Supplying and drawing of ISI marked 8 core security cable as per approved makes	Meter	1									
10	Cash Cabin Door Alarm	Nos	1									
11	Supply Installation Testing and Commissioning of 12V - 7. Ah (Battery) Sealed Maintenance Free UPS as per technical specifications	Nos.	1									