

अं. का ZO/ security/ सुरक्षा/2025-25

दिनांक Date : 16.08.2025

**INVITATION OF BIDS FOR 1) NEW INSTALLATION / UPGRADATION OF CCTV SYSTEM AND AMC OF PRESENT EQUIPMENT 2) INTEGRATED FIRE CUM SECURITY ALARM WITH AUTO DIALER AND AMC OF PRESENT EQUIPMENT FOR BANK'S BRANCHES LOCATED IN SHIMLA AND KINNAUR DISTRICTS OF HIMACHAL PRADESH UNDER SHIMLA ZONE OF UCO BANK**

Tenders are invited from reputed vendors for the following

- i) New Installation / upgradation of CCTV system in UCO Bank Branches/offices located in Shimla, and Kinnaur Districts of Himachal Pradesh under Shimla Zone of UCO Bank.
- ii) New Installation / upgradation of Integrated Fire cum Security Alarm in UCO Bank Branches/offices located in Shimla and Kinnaur Districts of Himachal Pradesh under Shimla Zone of UCO Bank.
- iii) Non Comprehensive AMC of 63 Branches, 45 ATMs, 02 Currency Chests and 01 Office for CCTV and security alarm.

Only those firm will be considered which fulfil the criteria as given in technical bid:-

1. Reputed vendors specialized in providing security Gazettes.
2. Ability to undertake all Security Gazettes related installation work for all branches throughout the zone.
3. Have ability to provide hassle free services.
4. Ability to commence execution of work within 03 days from date of placement of order
5. Vendor should have at least one local office in Himachal Pradesh. Proof of local address is mandatory.
6. Vendor should have a credible supervisory infrastructure and network for provision of maintenance of security gazettes as also for follow up with law enforcement agencies.
7. Vendor should provide the latest Income Tax assessment order, PAN number, Service tax number.
8. Vendor should provide the latest audited balance Sheet
9. Vendor should have GST Number.
10. Bank reserve the right to award the contract to single service provider or can engage 02 service providers on negotiable rates (Even bank can offer the contract to L-2 or L-3 bidder on negotiable rates if L-1 bidder fail to provide the service within stipulated time.
11. To arrive at L1, following formula will be followed for both CCTV as well as Security Alarm;
  - a) Total cost of items as required in one branch will be taken into consideration (mentioned in Financial bid) plus cost of non-comprehensive AMC of two years.
  - b) Financial bid is the combination of cost Hardware of one branch and Non-comprehensive AMC.
  - c) Cost of one item will not be the base for L1. Number of items may vary as per the normal requirement of branch which is the discretion of bank and mentioned in Financial bid.

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d) Lowest grand total will be the final figure for L1.

12. Proposed agreement to be signed with the vendor is also available at **Annexure 'A'** of this advertisement.

13. The Bidders shall submit the Tender Fees, Tender processing fees, EMD AND Technical Bid as under :

- i) **Tender documents fees** – Rs. 1000/- (Non refundable). For both CCTV and Security alarm
- ii) **EMD:-** Rs. 10000.0 (refundable). For all CCTV, Security alarm and AMC

EMD and tender document fees will be submitted through a separate DD in favour of 'UCO BANK ZONAL OFFICE SHIMLA.

14. Tenders will be submitted in the following manners:

- a) **Part I. Technical bids** (**annexure- 'B'**) - To include profile of the company, list of major existing clients, registration number and sales tax details as mentioned in annexure.

Technical bid alongwith above mentioned requisite fees and documents (separate bid for both CCTV and Alarm) in two sealed covers superscribed "TECHNICAL BID FOR CCTV SYSTEM and TECHNICAL BID FOR SECURITY ALARM" on respective envelopes.

- b) **Part II. Financial Bid** (**annexure-'C'**) Financial bids will be in two parts :

**Part-1** Financial bids for CCTV (annexure C part-1)

**Part-2** Financial bid for Security alarm (annexure C, Part-II)

Part II (Financial Bid) will be opened only if Bank is satisfied with Part I (Technical Bid). Bank reserves the rights to reject any/all bids without assigning any reason thereto. All pages of the tender should be signed and stamped by the vender while submitting the tender. Rates in financial bids will be quoted as per technical specification given at appendix 'D' for CCTV, appendix 'E' for Fire and Security Alarm and appendix 'F' for terms of AMC (both for CCTV and security alarm). Financial bids for above items will be submitted in separate envelopes. Then these two sealed covers (financial bids-each cover to be superscribed "FINANCIAL BID FOR 'CCTV' OR 'SECURITY ALARM') are to be put in a bigger cover (SUPERSCRIBED "FINANCIAL BIDS").

Similarly, Technical bids for CCTV and security alarm (separate bids and superscribe as "Technical bid for 'CCTV' or 'SECURITY ALARM') also to be put in a big envelop which should be

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superscribe as "TECHNICAL BIDS". Thereafter, Both big sealed envelopes (FINANCIAL BIDS AND TECHNICAL BIDS) to be sealed in a single envelop. This will be the final tender. Final tender to be addressed to "The Zonal Manager, UCO Bank, Zonal Office Shimla, Security Deptt, HotelHimland, Circular Road, Shimla (HP). Send your tender by courier/post or put the same in the Tender Box provided at the above address by 1500 hrs on or before 06 Sept 2025. Conditional Bids will be summarily rejected. Each bidder shall submit only one bid for each Item (Each for CCTV & Security Alarm). In case a bidder submits more than one bid, all bids submitted by that bidder will be summarily rejected.

For any other queries, vendors may contact the SECURITY DEPARTMENT, Zonal Office, Shimla on working days between 11 A.M. to 4 P.M.

15. Opening date of Tender – 16.08.2025 and Closing date of tender – 06.09.2025, 1500 hrs.

**(VIVEK MISHRA)**  
**DY GENERAL MANAGER & ZONAL HEAD**

ARTICLE OF AGREEMENT

AN AGREEMENT made this \_\_\_\_\_ day of ----- between UCO BANK, a body corporate constituted under Banking Companies (Acquisition and Transfer of Undertakings) Act, 1970 having its UCO Bank, Zonal Office Shimla, Security Deptt, Hotel Himland, Circular Road, Shimla (HP) (hereinafter referred to as the "Bank") of the one part and \_\_\_\_\_ of \_\_\_\_\_ hereinafter referred to as the "Vendor") of the other part.

WHEREAS IT IS AGREED THAT:

1. The Vendor shall install close circuit television systems / Integrated Fire cum Security alarm system and AMC of these equipment at Bank's various Branches located in Himachal Pradesh on the terms and conditions herein contained and according to the General and special Conditions of Tender Specifications and Schedule of rates attached, and instructions to be given by and under the supervision of and to the entire satisfaction of the Bank's authorised representative at SHIMLA.
2. The Vendor has satisfied himself as to the nature of the work to be executed on the site. Any difficulties which the Vendor may come across in the course of the work shall neither in any way relieve him from fulfilling the terms of this agreement nor entitle him to claim or receive extra payment, unless the Bank's authorised representative is of the opinion that such difficulties could not have been foreseen.
3. **Supply of Material/Labour:** The Vendor shall provide all labour, materials, equipment, tools, & every thing necessary for the completion of the installation work. The detailed specifications mentioned in the tender documents shall be adhered to by the Vendor & no variation shall be made therein by the Vendor without obtaining previous approval in writing from the authorised representative.
4. All materials supplied by the Vendor shall be of the best quality, conforming to the required specifications and will be subject to the approval of the Bank's authorized representative. No pirated software and Hardware will be provided by the Vendor. All such materials as shall not be approved shall be removed at once by the Vendor at his own expense. The Vendor shall be responsible for any loss arising from any failure of the Vendor to discharge his responsibility for the safety and protection of all material/equipment of the Bank during execution of the work.
5. **Damage on account of incomplete work:** The Vendor shall complete the work within the time stipulated in the work order to this effect. The work will be progressed in accordance with the agreed schedule and whole work shall be completed and handed over ready for use within the agreed time period from the date of commencement of work (time being of the essence), failing which the Vendor shall pay liquidity damages @ Rs 500/- per day, per Branch subject to maximum 10% of the contract value. Such damages may be deducted by the Bank from any money due to the Vendor.
6. **Termination of Contract:** In the event of the Vendor failing to keep to the agreed schedule of work, or in the event of the Vendor failing to complete the work within the stipulated period, the Bank may terminate this agreement forthwith and employ another Vendor or a sufficient number of workmen to complete the work at the Vendor's cost, in this event the damages specified in Clause 5 above shall apply from the date this agreement.
7. **Defective work/materials:** If any part of the work done by the Vendor shall be found defective in workmanship or if bad or inferior materials have been used. The Vendor shall at his own risk and cost, replace all such defective work and replace the bad or inferior materials used, to the satisfaction of the Bank's authorized representative. The decision of the Bank's authorized representative in this regard shall be final and binding on the Vendor. In case of default of the Vendor to remove the defective work or replace the bad or inferior materials as aforesaid, as

directed by the Bank's authorized representative, the Bank shall be entitled to employ anyone else to carry out the same and recover all expenses incurred in this regard from the Vendor.

8. **Substitution of Vendor:** If the Bank finds it necessary to employ any other person(s) as mentioned hereinabove then the Bank may deduct and retain from out of the sums due to the Vendor all such sums of money as may be required to pay or to reimburse themselves in respect of the expenses which they may have to pay or have incurred in getting the work so done and if such expenses be more than the amount due to the Vendor, then the difference shall be a debt recoverable from the Vendor by the Bank. The Vendor shall not do or cause to be done any act, manner or thing, which would prevent the person(s) so employed by the Bank from doing their work. On termination of the agreement as aforesaid, the Vendor shall at his own risk and cost remove from the work-site within the time prescribed by the Bank all materials, tools, equipment which the Bank considers are not useful for its requirements. If the Vendor does not remove the materials within the time prescribed, the Bank may remove and sell the same holding the proceeds less the cost of storage, removal and sale, to the credit of the Vendor. Should the Bank incur any loss in respect of the sale, it shall be entitled to recover the same, from the Vendor. The Bank shall however be entitled to purchase the materials inspected and approved as useful for its requirements, at the prices then prevailing.
9. **Inspection of work:** During progress of the work, the representative of the Bank shall be entitled at all times to have access to and inspect the work.
10. **Supervision:** The Vendor shall provide one or more competent and technical supervisors duly and fully authorised to act on his behalf in all matters relating to the works to be carried out under or any other matter concerning this agreement and who shall at all times be present at the works when any work is in progress. Such supervisors shall be persons of known experience and be approved by the Bank authorized representative before they are permitted in any way to take charge of, or superintend any operation of the works. Any directions, explanation, instructions or notices in connection with the work given by the Bank's authorized representative to the supervisor or any one of them shall be deemed to have been given to the Vendor.
11. **Payment for work done:** Payments of the final bill/bills will be made in due course after satisfactory supply/installation of equipment.
12. The Vendor shall submit his final bills in duplicate based on measurements jointly recorded by Bank's authorized representative and with the Vendor's authorised Representative. All payments against the bills will be made by the respective Branches through Cheque and such payments shall be subject to deduction of income tax & other taxes as may be applicable from time to time.
13. The Bank-in consideration of the Vendor carrying out the work shall pay the Vendor at the rates given in the attached Schedule, subject to deductions, retention and abatements, if any to be made there-from. The payment in all cases will be in accordance with the actual quantities, based on the measurements as specified in hereinabove.
14. **Subletting Contract:** The Vendor shall not without the prior written consent of the Bank first had and obtained sublet or assign this Agreement or any part thereof PROVIDED ALWAYS that any consent given by the Bank for signing or subletting will not relieve the Vendor from the full and entire responsibility of his obligations under this Agreement and/or instructions issued to him.
15. The terms and conditions mentioned in the Tender documents (as given in Annexure) and in the work order shall form part and parcel of this agreement.
16. **Workmen's Compensation Liability:** The Vendor, his heirs, executors and administrator (and in the case of a Limited Bank, its successors and assigns) shall hold the Bank harmless and indemnified from and against all claims, costs and charge for which the Bank shall be liable under the workmen's Compensation Act, and any

enactment for the time being in force in that behalf and any amendments thereof and the expenses to which it shall be put there under, both in respect of personal injuries (within the meaning of the said Act) to the employees and servants of the Vendor sub-Vendors, if any, and/or permitted assigns, arising out of or occasioned during the currency of this Agreement, through the acts, or omissions whether due to negligence or otherwise of the Vendor, sub-Vendor(s), permitted assigns and also in respect of the personal injuries (as understood under the said Act,) to the servants and employees of the Bank arising out of or occasioned through, the acts and commissions whether due to negligence or otherwise, of the Vendor, sub- Vendor(s) permitted assigns and/or his servants and employees in carrying out any of the provisions of this Agreement. The Vendor shall further indemnify the Bank against such claims from third parties in respect of injuries arising out of or occasioned through the acts and omissions, whether due to negligence or otherwise, of the Vendor, Sub-Vendors, permitted assigns and/or his servants and employees in carrying out any of the provisions of this Agreement.

17. **Liability under Employees State Insurance Act:** Whenever the Bank is required to pay contributions in respect of the workmen or employees engaged or employed by or through the Vendor, his Sub-Vendor or permitted assigns, under the Employees State Insurance Act or the Rules and Regulations, made there under either as the Principal Employer or otherwise howsoever, the Bank shall be entitled to recover from the Vendor such contributions which the Bank may pay. The Vendor will discharge his responsibilities under the Employee's State Insurance Act, 1948 as an immediate employees engaged or employed by him for the execution of work or as the next immediate employer in case he has sublet or assigned the Agreement or the instructions as provided herein above. The Vendor acknowledges the rights of the Bank to recover the amount of the contributions paid by it in the first instance in respect of the employees employed by or through him (the Vendor) or by his Sub-Vendor or permitted assigns, as well as the employees' contributions if any either by deduction from any amount payable to him by the Bank under any contract or as a debt payable by him to the Bank.
18. **Statutory Requirements:** The Vendor shall conform to provisions of Acts of Parliament or State Legislatures and to any bye-laws, rules, orders or notifications of any Government, Municipal or Local authority for the time being in force affecting the work undertaken by him and will give all necessary notices to and obtain requisite sanction and permits of and from the Municipal and any other authority in respect of the said work of the materials to be used thereat and generally will comply with building and other regulations of such authorities and will keep the Bank indemnified against all claims, penalties and losses that may be incurred by it by reason of any breach by the Vendor of any statutes bye-laws, rules, regulations, notifications etc.
19. "The Vendor undertakes to ensure due and complete compliance with all laws, regulations, rules etc. whether of the Central Government or the State Government or of any other competent authority applicable to the workmen employed or whose services are otherwise availed of by the Vendor whether in connection with the construction work at the site or otherwise.
20. The Employer shall have the right to inspect the records maintained by the Vendor concerning such workmen from time to time and the Vendor shall whenever require by the Employer produce such records as the Employer may call upon the Vendor to produce for the Employer's inspection in order to ascertain whether or not the requirements of all such laws, regulations, rules etc. have been complied with by the Vendor. In event of any contravention of such laws, regulations, rules etc. coming to light whether as a result of such inspection or otherwise to effect such compliance within such time as the Employer may prescribe in that behalf and in the event of the Vendor failing to effect such compliance within the time prescribed by the Employer then the Employer shall without prejudice to his rights be entitled to withhold from the amount payable to the Vendor any amount payable to the workmen under any such laws, regulations or rules to make payment thereof to the workmen. The employer shall also have in that event the right to terminate the contract with immediate effect and to exercise powers reserved to the Employer under the contract as a result of termination."
21. **Clerical errors to be rectified:** Neither party shall take any advantage of any clerical error or mistake which may creep in or occur in the specifications, schedule of rates, plans instructions tenders or any other papers supplied to



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or by the Vendor in connection with the work, but such clerical error or mistake shall be brought to the notice by the one to the other without any loss of time and same shall be rectified.

22. "The parties to this agreement shall not be responsible for any failure of performance or delay in performance of their obligations hereunder if such failure or delay shall be a result of any Government directive relevant to this agreement or due to war, hostility, act of public enemy riots or civil commotion, strikes, lock-out, fire, floods, epidemic or acts of God, arrests and restraints of rulers and people, political or administrative acts of recognized or defector governments, import or export restriction compliance with orders of any governmental/local authority or any other cause or causes beyond their control."

23. **Jurisdiction:** This agreement shall be deemed to have been made in SHIMLA and shall be construed according to the laws of India and the performance by the Vendor of and act on his part herein contained shall be considered due in SHIMLA for the purpose of Jurisdiction.

In witness whereof the said contracting parties have set hands and seals on the day and year first herein above witness.

Witness

EMPLOYER

Witness

VENDOR



**APPENDIX 'B'**

**TECHNICAL BID**

**MANDATORY TECHNICAL REQUIREMENT (CCTV and Security alarm)**

(The tender of the vendor not fulfilling even one of the following requirements/ conditions will not be considered)

**Part - I**

1	Address of the Main/ Sub Office in HIMACHAL PRADESH		
2	Details of after sales service network/ centres.		
3	Telephone Numbers		
4	PAN No. (Enclose copy of PAN card)		
5.	Registration with GST COUNCIL (Attach Proof)		
6.	Details of works related to CCTVs /Fire and Security alarm system only undertaken during last five years		
7.	Latest Audited Balance Sheet		
8	Details of the work carried out with UCO Bank (Name of the Zone/Offices, duration and a certificate of satisfaction)		

**Part - II**

1	Name of the Firm		
2	Type of Firm (Attach necessary proof)		Sole proprietorship/ partnership/ Limited Company/ others





3	Year of establishment		
4	Address of Main office with telephone number/ FAX No. (attach address proof)		
5	Number of technical staff available with the Firm ( give details)		
6	Whether on approved panel of any Government Department/ Public Sector Undertaking/ Banks (enclose respective proof) – not mandatory		
7	Whether any of the family members working with UCO Bank, if yes, give details.		
8.	Whether vender has been blacklisted by any of the zones of UCO Bank or any PSB. if So, details may be provided.		

Seal

(Signature of the tenderer)

Date

**APPENDIX 'C'**

**FINANCIAL BIDS**

**Part-I: CCTV SYSTEM**

Tender for Supply, Installation and Maintenance of CCTV System at our Branches & ATMs

Sl. No.	Description of items	Rate per unit (R)	Quantity (Q)	Total cost (R*Q)
01	Supply of Camera Dome- as per technical specification		06	
02	Supply of BULLET COLOUR CAMERA - as per technical specification		04	
03	PIN HOLE CAMERA- 1/2.9 Inch Colour Camera, Resolution Minimum 1 MP, HDVCI, OSD AUDIO 3.6 MM FIXED LENSE		01	
04	Supply of 4 Channel DVR for ATM as per specification given in appendix 'D'		01	
05	*Supply of 4 Channel DVRas per specification given in appendix 'D'		01	
06	*Supply of 8 Channel DVR as per specification given in appendix 'D'		01	
07	*Supply of 16 Channel DVR as per specification given in appendix 'D'		01	
08	*Supply of 32 Channel DVR as per specification given in appendix 'D'		01	
09	**Supply of 4 TB surveillance HDD as per specification given in appendix 'D'		01	
10	**Supply of 6 TB surveillance HDD as per specification given in appendix 'D'		01	
11	**Supply of 8 TB surveillance HDD as per specification given in appendix 'D'		01	
12	Supply and laying of 3+1 coaxial cable with PVC conduit		150 Mtr	
13	Supply of CAT 6 cable with RJ 45 Connector and PVC Conduit		50 mtr	
14	BNC connector (good quality)		25 Nos	

15	I/O Box set (recognised brand)		01 No	
16	SMPS 05 AMP 12 VOLT For 4 channel		01 No	
17	SMPS 10 AMP 12 VOLT For 8 channel		01 No	
18	SMPS 20 AMP 12 VOLT For 16 channel		01 No	
19	Installation charges (testing and commissioning of the total system. This work includes every work and materials related to the job and training of branch functionaries in handling and operating of CCTV system. As this is a turnkey job complete in all respect, hence no extra payment will be made on any account)		8 cam	
20	Supply and installation of DVR Mounting rack as per specification given in appendix 'D'		01 No	
21	Supply and installation of IP Camera - as per specification given in appendix 'D'		01No	
22	Supply and installation of monitor for CCTV as per specification given in appendix 'D'		01 No	
23	Supply and installation of wireless mouse of Good brand (LG/logitech)		01 No	
24	***Non Comprehensive AMC Charges with 03 yearly compulsory preventive Visits and unlimited maintenance visits.		02 years	
(a)	Branch/ATM with 4 Channel DVR		for 02 years	
(b)	Branch/ATM with 8 Channel DVR		for 02 years	
(c)	Branch/ATM with 16 Channel DVR		for 02 years	
(d)	Branch/ATM with 32 Channel DVR		for 02 years	
e)	Average of Srl No. 23 (a), b, c & d = (a+b+c+d)/4			
25	GRAND TOTAL OF ONE BRANCH	(1+2+3+4.....22+24(e))		

Exclusive of GST

**Note :- final rate for L1 will be calculated on the basis of requirement of one branch as given above. Hence, Grand total of one branch (at Srl No. 25) is the base for L1**

\* Cost of 4 Channel DVR Must not be lesser than 4, 8, 16 & 32 Channel. Similar Rule will be followed in case of 8 and 16 Channel DVR (a<b<c<d). Otherwise bid will be treated as cancelled.



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\*\* Cost of 4 TB HDD Must not be lesser than 6 & 8 TB HDD. Similar Rule will be followed in case of 6 and 8 TB HDD ( $4 < 6 < 8$ ). Otherwise bid will be treated as cancelled.

\*\*\* Average of AMC charges of all 4 type of DVRs will be taken to arrive at L1 ( $a+b+c+d/4$ ). Cost of AMC of 32 channel must not lesser than 4/8/16 Channel. Similar Rule will be followed in case of 8, 16 & 32 Channel DVRs ( $a < b < c < d$ ). Otherwise bid will be treated as cancelled. However, AMC will be paid at the quoted rates for respective DVR.

Seal

(Signature of the Tenderer)

Date

**APPENDIX 'C'**

**FINANCIAL BIDS**

**Part-II: FIRE AND SECURITY ALARM**

S.No.	Description	Rate per Unit (R)	Qty (Q)	Total cost (R*Q)
1	Supply and installation of Integrated Alarm panel with GSM Autodialer – 08 Zone		1	
2	GSM autodialer cpmptible with Integrated Fire and Security alarm		1	
3	Battery 12 v , 7 AH		1	
4	Supply and installation of Magnetic		2	
5	Supply and installation of PIR sensor		2	
6	OPTICAL Smoke Detectors, 65 series, Apolo /			
7	Supply and installation of Panic Switch wired		3	
8	Supply and installation of Hooter		2	
9	Motorized siren (500 mtrs)		1	
10	Fire PCB		8	
11	Manual Call point		2	
12	Response indicator		2	
13	PVC Wiring with conduit		150 mtrs	
14	Armoured cable		150 mtrs	
15	Installation, testing and commissioning of the total system. This work includes every work and materials related to the job and training of branch functionaries in handling and operating of cctv system. As this is a turnkey job complete in all respect, hence no extra payment will be made on any account.		1 job - Complete installation	
16	Rate of Buy back of our old/defective panel (Analogue/Digital)		1	(-)
17	Non Comprehensive AMC Charges for two Year with 03 compulsory preventive Visits and unlimited maintenance visits.		02 years	
18.	Grand total of One branch	(1+2+3+4+5+6....17)		

Exclusive of GST

**Note :- final rate for L1 will be calculated on the basis of requirement of one branch as given above. Hence, Grand total of one branch (at Srl No. 18) is the base for L1**

**APPENDIX-'D'**

**TECHNICAL SPECIFICATION OF CCTV**

**(Mandatory to fill)**

**MAKE & MODELS OF CCTV COMPONENTS (HIKVISION/ DAHUA)**

**OEM Criteria**

1. Made in India products are preferred - BIS & UL mandatory
2. OEM should have a registered office in India and local service center in India
3. Product quoted should be UL, CE, FCC, BIS certified and product wise certificate to be provided by OEM and FIPS certified, Cyber essential and GDPR document to be provided.
4. Organization needs to be ISO 9001, 27001, 14001, 45001 certified for environment and cyber security reasons.
5. OEM needs to have local service team with local branch and service center so that bank can call anytime OEM for audit - OEM service center details required.
8. Product quoted for camera, recorder, Cable, monitor should be of same Make for seamless integration and also should be able to integrate existing hardware with the bank.
9. OEM to provide local audit support anytime in region without any additional cost.

### eXtended Video Recorder(XVR)-4, 8, 16, 32ch

This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001

Products quoted should be of international repute & from any of Top global OEM as per latest IHS report

All systems and components must be in compliance with FCC/CE/UL/RoHS requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

S.N	Parameter	Specification	Compliances
1	Compatibility	Analog cameras (mandatory), AHD, CVI, TVI (minimum one out of the three other than itself)	
2	Main Processor / Operating System	Embedded	
3	System Resources	Pentaplex function: recording, playback, live view, backup, remote access over IP network	
4	Recorder Control Options	Video Front panel, Virtual Keyboard (Both RS485 and IP), IP Network, USB mouse	
5	Analog / HD Camera Input	Minimum 4/8/16 Video channel; BNC	
6	IP Camera Input	04 Ch. HD + 2 IP Ch. (Total 6 IP Channel each upto 6 MP) 08 Ch. HD + 4 IP Ch. (Total 12 IP Channel each upto 6 MP) 16 Ch. HD + 8 IP Ch. (Total 24 IP Channel each upto 6 MP) 32 Ch. HD + 16 IP Ch. (Total 48 IP Channel each upto 6 MP)	
7	Recorder Video Output	Minimum 1 VGA, 1 HDMI	
8	Recorder Audio Input	Minimum 1 audio channel, BNC or RCA	
9	Recorder Audio Output	Minimum 1 audio channel, BNC or RCA	
10	Recorder Bidirectional Talk	1 channel RCA	
11	Display Screen Mode	1,4,8,9,16,32 ALL (Window) as per recorder channels	
12	Camera Scheduling	Supported (Continuous/Motion/Event based)	



13	On Screen Display	Date, Time , Camera Title, Video loss alert, motion detection alert, recording, camera lock alert, camera tampering, camera masking.	
14	Video/Audio Compression	H.265/H.264/G.711 respectively (One Channel) or higher	
15	Image Resolution	4 MP/1080p/720p/VGA/WD1/4CIF/CIF or better with selectable fps.	
16	Encoding Stream	4 MP lite/3 MP@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) in all channels with selectable fps	
17	Video Encoding Bit Rate	Analog video: 32~2048Kb/s or higher, IP video: 32~4096Kb/s or higher	
18	Image Quality	6 levels (VBR/ CBR)	
19	Recording Mode	Manual, Schedule, Regular, Motion detection, Camera blank, Video loss. Stop Recording	
20	Recording Priority	Manual; Alarm; Motion Detection & Regular	
21	Recording Interval	Prerecord: 1sec to 30 sec., Post-record: 10sec ~ 5 minutes	
22	Alarm Input	Supported Minimum 4	
23	Relay Output	Supported Maximum 1	
24	Water Marking	Supported	
25	Playback Channel	Synchronous Playback 1,2,4 (for 4ch recorder); 1,2,4,8 (for 8ch recorder); 1,2,4,16 (for 16ch recorder)	
26	Recorded Data Search Mode	Video Time & Date, Exact search (with Date, Hour, Minute / Second accuracy), Motion Detection, Alarm	
27	Video Intelligence	Deep learning-based motion detection, perimeter protection (line crossing and intrusion detection), OR facial recognition. [Face picture comparison, face picture search (1-ch face picture comparison alarm for HD analog camera)]. Face comparison/recognition should support in either 4ch/8ch/16ch recorder	
28	Playback Options	Play, Digital zoom (any size), Pause, Rewind, Slow motion, shift to Next file, shift to Previous	

		file, one click Previous camera, one click Next camera, Full screen mode, Replay, Backup selection, Fast forward, Shuffling	
29	Operation Over Network	Monitor, Playback, File download, Log information, System setting,	
30	Hard Drive Storage Option	For 4 Channel – 2 SATA , 8 Channel – 4 SATA , 16 Channel – 8 SATA. 32 Channel - 8 SATA Should support up to 10 TB per SATA port	
31	USB Interface	Minimum 2 Ports	
32	Power Supply	12 VDC /AC 100~240 V, 50/60 Hz	
33	Working Environment	All Indoor weather conditions	
34	Duplex type	Recorder should be able to playback recoded footage without having to stop recording	
35	Certificate	UL/BIS,CE,FCC	
36	HDD quality	Surveillance Hard Disk: Sea Gate/Western Digital/Sky Hawk( 2 TB / 4 TB/6 TB/8TB)	

#### 4CH ATM recorder

This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001

Products quoted should be of international repute & from any of Top global OEM as per latest IHS report .

All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

#### 4CH ATM recorder ( with inbuild Screen )

<u>Specifications</u>			Compliance Yes/No
1	Operating system	Embedded RTOS / Linux / Windows	
2	-	-	
3	Analog / HD Camera Input	4 Channel recorder	
4	Video surveillance Hard disk	Surveillance Grade recorder HDD	
5	HDD Slots	2 SATA (upto 20 TB per slot )	
6	Video Input	4 Ch (Only for ATMs)	
7	Display speed	100 fps for 4 channel (Only for ATMs) (25 fps for each channel)	
8	Compression method	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264	
9	Display split screen (Screen mode)	1,4 for 4 channel	
10	Encoding Resolution	4 MP lite@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
11	Audio Input	1-ch, RCA (2.0 Vp-p, 1 KΩ)	
12	Audio Output	1-ch, RCA (Linear, 1 KΩ)	
13	Synchronous Playback	4 Ch	
14	IP Camera Input	2 Channel IP Camera in addition to HD channels; up to 6ch at the expense of HD channels	
15	Independent Recording setting Per channel	Continuous, motion detection sensor activated, flexible day /time daily Schedule.	
16	Monitoring	4 channel real time Monitoring. Single mode & 2x2 Mode Sequential switching mode Switching out monitoring	

17	Searching / Playback	Date & Time based 1 channel searching and all channel simultaneous searching Replay up to 25 fps in each channel	
18	Video Intelligence	Should support Motion detection, Intrusion Detection	
19	Smart ATM Features	1-ch human face mode and 1-ch panel mode for analog channel <b>Panel Mode :</b> Human entrance, operation timeout, sticking scrip, and installing scanner <b>Human Face Mode :</b> Normal human face, abnormal human face, multiple human faces, wearing sunglasses, and using mobile phone	
20	Back Up facility	In built & provision for External portable HDD/Pen drive/through USB port. Player software to play back recorded video should automatically be loaded on to the external back up media so that it can be played back on any PC directly.	
21	User Interface	On screen graphic User Interface(GUI)	
22	System recovery after power failure	Auto Re booting	
23	Operation for setting and searching	User friendly	
24	Multiple functionality	Should support pentaflex functions to perform all recorder functions at the same time, i.e., record, live view/playback, network (view remotely), administrative and backup. Client software for remote view shall be provided free of any charge if required.	
25	Compatibility	Should support all types of cameras	
26	Certifications	UL/BIS,CE,FCC	
27	System operation	Micro processor based Password operated	

HD Fixed Dome			
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All systems and components must be in compliance with <b>FCC/CE/UL/RoHS</b> requirements.			
The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.			
S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI, CVBS	
2	Image Sensor	2MP CMOS Sensor	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:1080p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	24/7 Color Imaging	
14	Shutter	Automatic	
15	Slow Shutter	16X	
16	Auto Gain Control (AGC)	Automatic	



17	Noise Reduction (NR)	3DNR	
18	White Light	Up to 20 mtr	
19	Functions	Brightness, Sharpness, 3D DNR, Mirror, Smart light	
20	Lens	3.6mm, 2.8mm	
21	Field of view	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)	
22	WDR	130 db WDR ( DWDR not acceptable)	
23	Input Voltage	DC12V±10%	
24	IP Rating	IP67	
25	Operation Temp	-30° to +50° C	
26	Storage Humidity	90% or less	
27	Certification	UL/BIS,CE,FCC	
28	Image Enhancement	BLC, HLC Supported	
29	Built-in Microphone	Yes	
30	Material	Metal	

### HD Fixed Dome

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Products quoted should be of international repute & from any of Top global OEM as per latest IHS report .

All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI, CVBS	
2	Image Sensor	2MP CMOS Sensor	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:1080p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
11	Sync System	Internal	
12	White Balance	Automatic	
13	Day & Night	24/7 Color Imaging	
14	Shutter	Automatic	
15	Slow Shutter	16X	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	White Light	Up to 30m	
19	Functions	Brightness, Sharpness, 3D DNR, Mirror, Smart light	
20	Lens	3.6mm, 2.8mm	





21	Field of view	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)	
22	WDR	130 db WDR ( DWDR not acceptable)	
23	Input Voltage	DC12V±10%	
24	IP Rating	IP67	
25	Operation Temp	-30° to +50° C	
26	Storage Humidity	90% or less	
27	Certification	UL/BIS,CE,FCC	
28	Image Enhancement	BLC, HLC Supported	
29	Built-in Microphone	Yes	

### HD Varifocal Dome

This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001  
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All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI	
2	Image Sensor	1/3" 1080P CMOS Sensor /CCD or better	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Mini. 0.01Lux@F1.2, AGC Illumination ON, 0 Lux with IR	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:720p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
12	Sync System	Internal	
13	White Balance	Automatic	
14	Day & Night	Automatic	
15	Shutter	Automatic	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	IR Range	Up to 30m	
19	Lens	2.8-12mm (verifocal)	
20	WDR	120 db WDR ( DWDR not acceptable)	
21	Input Voltage	DC12V±15%	
22	IP Rating	IP67 ,IK10	



23	Ingress Protection - Vandal Proof	IK10 ( outer glass cover ) - Turret Shape not acceptable	
24	Operation Temp	0° to +50° C	
25	Storage Humidity	90% or less	
26	Certification	UL/BIS,CE,FCC	

**Specifications: 2 MP IR Fixed Turret Network Camera(IP Camera)**

SI No	Camera	
1	Image Sensor	1/2.8" Progressive Scan CMOS
2	Min. Illumination	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
4	Shutter Speed	1/3 s to 1/100,000 s
5	Slow Shutter	Yes
6	Auto-Iris	No
7	Day & Night	IR Cut Filter
8	Digital Noise Reduction	3D DNR
9	WDR	120 dB
10	3-Axis Adjustment	Pan: 0°to 360°, tilt: 0°to 75°, rotate: 0°to 360°
	Lens	
11	Focal Length	3.6mm, 2.8mm
12	Aperture	F2.0
13	Focus	Fixed
14	FOV	2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)
15	Lens Mount	M12
	IR	
16	IR, white light Range	Up to 30m
17	Wavelength	850nm
	Compression Standard	
18	Video Compression	Main stream: H.265/H.264
		Sub-stream: H.265/H.264/MJPEG
		Third stream: H.265/H.264

19	H.264 Type	Baseline Profile/Main Profile/High Profile
20	H.264+	Main stream supports
	H.265 Type	Main Profile
	H.265+	Main stream supports
21	Video Bit Rate	32 Kbps to 8 Mbps
	Smart Feature-set	
23	Behavior Analysis	Line crossing detection, intrusion detection
24	Region of Interest	1 fixed region for main stream
	Image	
25	Max. Resolution	1920 × 1080
26	Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
		60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
27	Sub-Stream	50Hz: 25fps ( 640 × 480, 352 × 288, 320 × 240)
		60Hz: 30fps ( 640 × 480, 352 × 240, 320 × 240)
28	Third Stream	50Hz: 1fps (352 x 240, 320 x 240)
		60Hz: 1fps (352 x 240, 320 x 240)
29	Image Enhancement	BLC, 3D DNR, HLC
30	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser
31	Day/Night Switch	Day/Night/Auto/Schedule
	Network	
32	Network Storage	Support Micro SD/SDHC/SDXC card slot (256 G), NAS (NFS, SMB/CIFS)
33	Alarm Trigger	Motion detection, video tampering, illegal login, HDD full, HDD error
34	Protocols	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP

35	General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
36	API	ONVIF (PROFILE S, PROFILE G), ISAPI
37	Simultaneous Live View	Up to 6 channels
38	User/Host	Up to 32 users, 3 levels: Administrator, Operator and User
49	Web Browser	IE10,11, Chrome 57.0+,, Firefox 52.0+
Interface		
50	Audio	1 built-in mic
51	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
52	On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
General		
53	Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing)
54	Power Supply	12 VDC $\pm$ 25%, PoE (802.3af, class 3)
55	Power Consumption and Current	Basic: 1.9 W (12 VDC); 2.5 W (PoE) Max. (ICR + H.265 + WDR + max. Illumination + intelligence on): 4.7 W (12 VDC); 5.6 W (PoE)
56	Protection Level	IP67
57	Material	Shell: plastic, camera body: metal

### HD varifocal Bullet

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All systems and components must be in compliance with **FCC/CE/UL/RoHS** requirements.

The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.

S.No	Parameters	Specification	Compliance Yes/No
1	HD Technology	AHD, CVI, TVI	
2	Image Sensor	1/3" 1080P CMOS Sensor /CCD or better	
3	Signal System	PAL	
4	Effective Pixels	1920(H)x1080(V)) or better	
5	Mini. Illumination	Mini. 0.01Lux@F1.2, AGC Illumination ON, 0 Lux with IR	
6	Video Output	1080P or higher @ 25 fps	
7	Display Resolution	1080P or higher @ 25 fps	
8	Recording Resolution	1080P or higher @ 25 fps	
9	Frame Rate	50Hz:720p or higher @25fps	
10	SNR	≥52dB(AGC OFF)	
12	Sync System	Internal	
13	White Balance	Automatic	
14	Day & Night	Automatic	
15	Shutter	Automatic	
16	Auto Gain Control (AGC)	Automatic	
17	Noise Reduction (NR)	3DNR	
18	IR Range	Up to 30m	
19	Lens	2.8-12mm (verifocal)	
20	WDR	120 db WDR ( DWDR not acceptable)	





21	Input Voltage	DC12V±30%	
22	IP Rating	IP67	
23	Operation Temp	0° to +50° C	
24	Storage Humidity	90% or less	
25	Certification	UL/BIS,CE,FCC	

Pinhole Camera			
This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001			
Products quoted should be of international reput e & from any of Top global OEM as per latest IHS report .			
All systems and components must be in compliance with FCC/CE/UL/RoHS requirements.			
The Offered Cameras, Recorder, VMS, Analytic shall be from the same OEM to ensure seamless integration & better support. However keeping in mind the future scalability, the offered VMS & Cameras should be ONVIF S compliant.			
Sr No	Feature	specification	Compliance Yes/No
1	Image Sensor	1/3" CMOS /CCD	
2	Effective pixels	1920(H)x1080(V))	
3	Resolution	1920(H)x1080(V))	
5		Color: 0.004LuxLux/F2.4 Black & White: 0.0004 Lux/F2.4	
6	S/N ratio	52 dB	
7	Electronic shutter	1/3s–1/100000s	
8	Lens	3.7mm Pin Hole (2.8mm optional)	
9	WDR	120 db WDR ( DWDR not acceptable)	
10	BLC	On/Off ( Auto)	
11	Motion detection	Yes	
12	White balance	Supported	
13	AGC	Supported	
14	Day & Night	Color/B/W/Auto level adjust	
15	Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port	
16	Power supply	DC12V	
17	Power consumption	5 Watts max	
18	Certification	UL/BIS,CE,FCC	
19	Perimeter Protection	Line crossing, intrusion. Support alarm triggering by specified target types (human and vehicle)	

20	Built-in Microphone	Supported	
21	Built-in Speaker	Supported	
22	HLC	Supported	
23	IR Range	Up to 10 m	

#### VMS Software Specifications

All software and licenses for end to end IP based video surveillance system
Proposed CCTV system shall be based on Non Proprietary open standard based integrated system with network centric functionality complied to ONVIF profile-S and management architecture, aimed at providing high-speed manual/automatic
Failure of one camera shall not affect other cameras.
The video management system shall be an enterprise class IP enabled fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different location.
The video management system shall allow a minimum 20,000 number of cameras, recording servers and clients to be connected to management server across multiple sites.
Single server should connect upto 50 ANPR cameras
The video management system shall include a distributed architecture, allowing clients on the host system with the user rights to view video sources belonging to multiple independent video management systems simultaneously.
The video management system shall contain a management server that shall be the central manager of the system and control recording servers, cameras, devices and users.
The video management system shall incorporate a fully integrated video-sharing functionality for distributed viewing of video from any camera in the system on any computer with the viewing client.
The video management system shall support encryption of video for export purposes.
Cameras, which shall show a minimum list of the following items. 1) Camera status (connected or disconnected)
An individual camera is recording or not
The name of the camera, the hardware device and the IP address of the hardware device
The recording server, the camera is connected
What storage the camera is using
Live video format, for example H.264 or M-JPEG
Recording video format, for example H.264 or M-JPEG
Viewing Client

The viewing client shall enable operators to connect to the management server for initial authorization. Up on authorization, the viewing client shall be able to connect to the recording server(s), for access to live and record
The Client operator shall be able to drag and drop a camera from a tree of available cameras or a camera sequence into any video tile for live viewing.
The viewing client shall allow the user to be able to:
View live video from cameras;
Playback recordings from cameras with a selection of advanced navigation controls, including an intuitive time line browser.
Switch between a number of views, each able to display videos from 1 up to 16 cameras from multiple servers at a time. The system shall make it possible to create views based on different layouts optimized for 4:3 and 16:9 displ
Access views of cameras on any PC with a viewing client installed.
Use multiple screens as well as floating windows for displaying different views simultaneously.
Quickly replace one or more views of cameras with other cameras.
View images from several cameras in sequence in a single camera position in a designated carousel position.
View video from selected cameras in greater magnification and/or higher quality in a designated special view position.
Control PTZ cameras.
Use digital zoom on live as well as recorded video.
Get a quick overview of sequences with detected motion.
Quickly search for motion in selected areas of a video recording.
Maps
The viewing client shall include a built-in map function which shall provide an intuitive overview of the system and shall offer integrated access to all system components.
The map function shall be able to use standard graphical file formats.
It shall be possible to use any number of layered maps and to easily drag- and-drop and point-and-click icons representing cameras.
The viewing client shall support a map function which shall support instant camera preview when moving the mouse pointer over a specific camera.
The map function shall support real-time status monitoring indication from all system components like camera, recording server, storage etc.
The map function shall support graphical at-the-glance visualization of the system status through color coding. Graphical tool illustrating health status of various equipment on a single screen, such as graphical representati
Storage

VMS should Support edge storage and central storage.
VMS should support Central storage: Extend storage via iSCSI.
Server disk configuration for picture storage involving face detection and recognition, alarms, and object detection
Create record plan by time template: All day template, weekday template, weekend template and custom template
Back up the video by schedule from the edge storage, like EVS, NVR, DVR, etc.
Disk quota: Group the disks, and cameras can be allocated to different disk groups
Vehicle Restricted List Management
Set start time and end time for vehicle restricted list
Arm and disarm vehicle restricted list.
Import and export vehicle restricted list.
Parking Management
Overview of entrance and exit information: Number of parking spaces and remaining parking spaces, traffic statistics, parking turnover, parking utilization rates
Support dual-camera capture for higher recognition rate.
Edit parking-lot, includes total and available spaces, parking name etc
Support configuration of barrier control rules, and support configuration of barrier control rules for zero-space-left cases
VMS should support searching for vehicle records, on-site vehicles, and ANPR details
VMS should support traffic Violation & search function by time, vehicle number, and traffic violation information type.
Support querying for data of passing-by vehicles by section, time period, plate number, plate color, average speed, and type
Supports Violation Penalty
Violators can be penalized.
Supports printing traffic tickets
Violation records can be reviewed.
Violation records can be searched for, including ANPR captured violations, and road section and traffic restriction violations.
Gives Overview of traffic flow
Supports searching for the traffic flow at intersections and road sections from specific periods.



Stand Alone Viewing Client
The standalone viewing client shall make it possible to view exported video.
The standalone viewing client shall run from an. exe file, and no installation of software shall be required in order to view exported sources.
Mobile Viewing Client
It shall be possible to access and view cameras and views on a Smart phone or a tablet (a mobile device). Mobile Client should have live and Playback functionality. It must support android, windows, iOS platform

**16 & 32 Channel NVR with 8 Sata Port**

S. No.	Features	Description	Compliance (Yes/No)
1	Main Processor	Industrial Grade Processor	
2	Operating System	Embedded LINUX	
3	SATA Ports	8 SATA ports for 16 / 32 channel NVR, Each SATA port should support 16TB HDD	
4	Interface	1VGA, 1HDMI	
5	Video Output	VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
6	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	
7	Multi-screen Mode (Display Split Screen)	1/4/8/9/16	
8	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
9	Video Detection	Motion Detection, MD Zones: 396 (22 X 18), Video Loss and Tampering, Scene Change Detection	
10	Alarm input	16 Ports	
11	Alarm output	4 Ports	
12	Sync Playback	1/4/9/16	
13	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
14	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	
15	Backup Mode	USB Device/Network/Internal SATA burner/e-SATA Device	
16	Internal HDD	All SATA ports should support 16TB	
17	USB	3(2 USB 2.0 port, 1 USB 3.0 ports)	



18	RS232	1 Port, for PC Communication and keyboard	
19	RS485	1 Port, for PTZ Control	
20	IP Camera Input	16	
21	Audio Compression	G.711a; G.711u; PCM; G726	
22	Two-way Talk	1 Channel Input, 1 Channel Output	
23	Compression	High Efficiency Video Coding (HEVC), H.265+ or more	
24	Resolution	1080P or more at 25 FPS	
25	Frames per Second	25 FPS	
26	Record Rate	256 Mbps Incoming	
27	Record Mode	Manual, Schedule (Regular, Continuous), MD, Alarm, Stop	
28	Record Interval	1-120 min (default: 60 min), Pre-record: 1-30 sec, Post record: 10-300 sec	
29	Interface	2 RJ-45 port (10/100/1000 Mbps)	
30	Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search, Multicast; P2P; Auto Registration	
31	Interoperability	ONVIF (Profile T; Profile S; Profile G), CGI Conformant	
32	Certifications	UL/ FCC, CE and BIS approved	

3+1 Coaxial and power cable		
Coaxial Cable		
Conductor	Material	Bare copper
	Wire Gauge	26AWG
	Diameter	0.41±0.01mm
Insulation	Material	FPE
	Diameter	2.0±0.1mm
Tape	Material	Copper foil
Braid	Material	Copper clad aluminum magnesium
	Braiding Standard	5*16*0.12mm ±0.008mm
	Braiding Density	≥80%
Jacket	Material	PVC
Impedance		75ohms
Power Cable		
Conductor	Material	Bare copper
	Quantity	3
	Diameter	11*0.16±0.008mm
Insulation	Material	SR-PVC
	Diameter	1.2±0.1mm
Jacket	Material	PVC
Make & Type	Acceptable type	ISI Marked (IS-694, 1990)  Make – Finolex, Polycab or similar quality,

19" HD LCD Monitor				
S.No	Category	Parameters	Specification	Compliance Yes/No
1	Monitor	Backlight	LED Backlight	
2		Screen Size	19.5 inch	
3		Pixel Pitch	0.300mm×0.300mm	
4		Max Resolution	1600×900	
5		Brightness	200cd/m2	
6		Contrast	1000:1	
7		Response Time	5ms	
8		Color	16.7M	
9		Active Area	409.8mm × 230.4mm	
10		Viewing Angle	Horizontal 90°, Vertical 80°	
11	Interface	VGA Input	1	
		HDMI Input	1	
12	General	VESA	75 mm × 75 mm	-



**CAT 6 Cable**

S. No.	Parameter	Minimum Specifications
1	Type	U/UTP 4Pairs cable-category 6- PVC Sheath
2	Size	23 AWG
3	Material	Solid Bare Copper
4	Test Standard	ISO/IEC11801, TIA-568-C.2
5	Ambient Temperature	-20°C - 75°C
6	Insulation Material	Polyethylene (HDPE)
7	Sheath material	PVC Polyvinyl chloride
8	Tensile Strength before aging	>13.5
9	Aging Period	100 Deg C x 24h x 10d
10	Colour Chart	1 White- Blue /Blue
		2 White-Orange /Orange
		3 White-Green /Green
		4 White- Brown /Brown

**APPENDIX-'E'**

**TECHNICAL SPECIFICATION OF FIRE AND SECURITY ALARM**

S No.	Security Alarm System	SPECIFICATIONS	Compliance Yes/No
1.	<b>Technical Specification for 8 ZONE Security Alarm System</b>		
(a)	Micro- controller Based Control Panel with Inbuilt LCD indication	Integrated Auto-dialer Hybrid ( <i>PSTN AND GSM based</i> with auto check indication by LED and SMS, tampered proof/wire cut trigger/short circuit/provision of wireless zone and <b>inbuilt LAN port</b> for future CMS compatibility and supports SIA and DC protocol	
(b)	Communication to CMS and Health monitoring Software support	8 Zone alarm metal Body Panel with Inbuilt Lan Port and 4G GSM inbuilt support for DUAL path network to communicate with Command centre and can be brought to network through LAN or 4G for health Monitoring and remote ctrl from CMS	
(b)	External Body Features	(i) Protected from dust, water, vermin etc. (ii) Acrylo nitride Butadiene Styrene(ABS)/18SWG MSCabinet, epoxy Coated. (iii) Locking of panel by Allen Head screw on sides/internal lock (iv) Bracket mounted (v) Provision for battery compartment inside the panel	
(c)	Micro-controller Based with LCD indication & push button	(i) Dedicated switch for health check and display of each item status on LCD (ii) To show the status/health of the system(Data Logger System) (iii) The panel should indicate the health of the system(Fault, power failure and battery status indicator).	
(d)	Wireless module	Provision for Cordless Switch to activate the alarm system	
(e)	Real Time Clock	Show real time	
(f)	LCD display	Indication in the event of any zone getting faulty or switch getting isolated and the system to remain functional.	
(g)	Automatic(arming & disarming)	(i) Change from day to night mode & Vice-versa as per the real time clock(programmable) (ii) Optional Day and Night reset key	
(h)	Sounding gets automatically put off after a period of 3 to 6 minutes (programmable with the help of keypad) and thereafter the entire system should get reset.		
(i)	Programmable 0-90 Sec time delay to activate		

(j)	Hooters for panic switches and entry and exit time delay from 0 to 90 sec for PIR	
(k)	Support two external hooters besides the internal one.	
(l)	Indication of hooter/siren health status through LCD display.	
(m)	Hooters	(i) Min 90 dB for internal and 110 dB for External (CE&UL certification) (ii) 4 wired with tamper loop (iii) ABS body (iv) Weatherproof (v) Wall mounting facility (vi) Operates on 12VDC (vii) Emergency panics witch with hooter
(n)	Power Supply	UPS supply (Mains) and self battery backup (12V7AH) with recharging facility
(o)	Compatibility	PIR Sensors, Magnetic Sensors, Vibration Sensors, Light Sensors, multi-function sensors and any wireless Sensors.
(p)	Auto Reset after activation	03 to 05 minutes (Day & Night Mode)
(q)	Wire cut trigger	Activate the alarm system for 3 minutes thereafter the affected switch/zone to get isolated/bypassed with display/blinking of LCD panel indicating the defect.
(r)	ON/OFF function	Through Key pad and optional reset key
<b>2. In-built Auto Dialer with 4/5 G Support for Call &amp; SMS</b>		
(a)	Compatibility	Hybrid GSM <u>AND</u> PSTN connection of any service Provider.
(b)	Storage and dialing	(i) Provision for storage and dialing minimum five (05) Telephone/mobile numbers with recording message upto 20 Seconds duration (ii) Message recording facility at local end (Branch end). (iii) Ability to generate SMS alerts in addition to auto dialing to the pre-fed numbers
(c)	Re-dialing	(i) Message should be repeated at least twice before dialing the 2 <sup>nd</sup> number (ii) If number not responded, facility to re-dial the number after completing the cycle
(d)	Display	Provide signal strength and status indication on display screen
(e).	Simulation/Testing	Provisioning of a TEST button for simulating SMS as well as voice calls to a desired number by user without opening the main panel box
<b>3. Dual Tech PIR Sensor</b>		
(a)	Dual Technology (IR & Microwave)	

(b)	Detection coverage horizontal angle 110degrees	
(c)	DetectionRange:Uptominimum10Mtrs	
(d)	Sensitivity range: Low/ Med/High	
(e)	Wall mounting facility.	
(f)	Pet/rodents immunity.	
(g)	Provision for calibration to adapt changes in ambient temperature due to various seasons.	
4.	<b>Wiring</b>	
(a)	2 Core and 4 Core Multistrand.75sq. mm / 1sq mm, flexible, ISI marked.	
(b)	PVC insulated copper wire for connection of panic switches and Other sensors respectively	
(c)	Rigid PVC conduit 2mm ISI mark. Fixed with metal saddling at every 02 ft distance.	
5.	<b>Magnetic Sensor(For Door)</b>	
(a)	ABS body	
(b)	4wiredwithtamperloop(NC circuit)	
(c)	OperatingGap:5cm	
6	<b>Magnetic Sensor(For Shutter)</b>	
(a)	Metallic body	
(b)	4 wired with tamper loop(NC circuit)	

(c)	Operating Gap:5cm	
7.	<b>Multi-Function Sensor</b>	
(a)	Capable of vibration detection, metal cutting and glass breaking	
(b)	ABS body	
(c)	Sensitivity range: Low/ Med/High	
8.	<b>Panic Switch</b>	
(a)	Sturdy built	
(b)	Micro Switch Technology	
(c)	In-built tamper Switch	
9.	<b>Light/Occupancy sensor</b>	
(a)	Microwave sensor	
(b)	Detection through doors, panes of glass, thin walls.	
(c)	Detectionangle:360/180 degree and detection length:12 meters	
(d)	Motion detection speed:0.6-1.5m/s	
(e)	Transmission power: greater than 0.2 mV	
(f)	Identify :Day & Night	

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## **APPENDIX 'F'**

### **TERMS OF AMC (CCTV AND FIRE AND SECURITY ALARM)**

1. Vender will have to carry out 3 compulsory preventive visits in a year. Preventive visits in every branch will be at the interval of 4 months.
2. Maintenance visits will be unlimited for defect rectification on the calls lodged by the branches.
3. In case of replacement of any part, vender will raise a bill in the name of concerned branch. Rates of parts must be same as quoted in financial bid.
4. A consolidated bill of AMC in respect of all the branches will be raised in favor of ZONAL OFFICE UCO BANK SHIMLA in the following manner;
  - a) 40% payment will be made after the completion of first preventive visit.
  - b) Rest 60% payment will be made at the end of the year. Rest two preventive visits must be completed at time of 60% payment.
  - c) Payment will not be made if vender presents AMC bill without completing preventive visits.
5. Vender will present a record of preventive visits of all the branches duly signed and stamped by the branch at the time of each bill cycle.
6. Initially, AMC will be awarded for 2 years which will be extendable for another one year provided bank is satisfied with the services rendered by the vender.



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**APPENDIX - 'G'**

**विशेष नियम एवं शर्तें SPECIAL TERMS AND CONDITIONS**

1) वेंडर का SHIMLA अंचल के अंतर्गत आने वाले स्थान विशेषत में स्थानीय कार्यालय होना चाहिए। उसे संपूर्ण पता और साथ कार्य करने वाले कर्मचारियों के फोन न.भी उपलब्ध कराने होंगे।

Vendor should have local representative Office under UCO Bank Shimla zone area for installation services. The vendor is to give complete address, Telephone number along with names of technical personnel available with them for this work.

2) वेंडर को तकनीकी विशेषताओं से युक्त विनिर्माता का प्रमाण पत्र प्रस्तुत करना होगा जिसमें उल्लेख होगा कि वे अपने उत्पाद के विक्रय एवं सेवा संबंधी मान्यता प्राप्त एजेंट हैं और विनिर्माता उत्पाद की बिक्री पश्चात सेवा का अधिकार भी रखती है।

Vendor has to submit a certificate from the manufacturers along with technical specifications that they are the authorized agents for the sale and service of their product and manufacturer undertakes to support the after sales service of the product.

3) वेंडर को यह आवश्यक रूप से उल्लेख करना होगा कि किस कंपनी के उत्पाद की आपूर्ति की जा रही है। उत्पाद की तकनीकी विशेषताओं के साथ वह मूलतः किस राष्ट्र से संबंधित है इसके विषय में भी प्रमाण पत्र प्रस्तुत करना होगा।

Vendor will have to essentially mention the name of the company whose product is to be supplied and the country of origin of the product along with technical specifications. They will also have certificate in respect of country of origin.

4) जो भी उत्पाद प्रयोग में लाए जाएंगे वे सभी विनिर्माण दोष के एवज में व्यापक गारंटी रखने वाले हों। गारंटी अवधि के दौरान वेंडर द्वारा तिमाही निवारक फोन सेवा प्रदान की जाए। और किसी भी आपात स्थिति में 24 घंटे के अंदर व दूरदराज के इलाकों में 48 घंटे में सुनवाई करनी होगी।

All products will stand for onsite all comprehensive warranty against all manufacturing defects. During the warranty period the vendor shall have to provide quarterly preventive service calls and shall have to attend to all breakdown calls within 24 hours and 48 hours for remote area branches.

5) एनुअल मेंटीनेंस चार्ज दी गई शर्तें एवं नियम के अनुसार वारंटी अवधि के समाप्त होने के बाद देय होगा।

AMC charges will be payable after expiry of warranty period as per terms & conditions mentioned herein.

6) वेंडर को विनिर्माता कंपनी का एक प्रमाण पत्र प्रस्तुत करना होगा जिसके अनुसार आपूर्ति किए गए उत्पाद से संबंधित पार्ट्स बिक्री पश्चात सेवा के लिए उपलब्ध होंगे।

Vendor will have to submit a certificate from the manufacturer that the spare parts for the supplied product will be available for after sales service.

7) वेंडर को प्रलेख साक्ष्य प्रस्तुत करने होंगे जो कि बिक्री कर, सेवा कर और ई.एस.आई एवं ई.पी.एफ के साथ पंजीकरण की पुष्टि करते हों।

The vendor will have to submit documentary evidences confirming Registration with sales tax, service Tax and ESI & EPF.

### सामान्य नियम व शर्तें **GENERAL TERMS AND CONDITIONS**

1. काम के पूरा न होने तक कुछ राशि बकाया रखी जाएगी और उसे अंतिम भुगतान में समायोज्य किया जाएगा।  
Earnest money shall be retained till the completion of the job and will be adjusted in the final payment.

2. वेंडर को बैंक से कार्य संबंधी सूचना प्राप्त होने की तारीख से 7 दिनों के भीतर अपना स्वीकृति पत्र जमा काराना होगा। यदि वेंडर कार्य करने में विफल रहता है तो उनके द्वारा जमा धरोहर राशि को जब्त किया जाएगा और निविदा की स्वीकृति को वापिस ले लिया जाएगा।

The vendor has to submit his acceptance of the work order within 07 days from the date of receipt of information from the Bank. In case the vendor fails to undertake the work, the earnest money deposited by them will be forfeited and acceptance of their tender will be withdrawn.

3. वेंडर द्वारा उद्धृत दर में सभी प्रकार के खर्च जैसे—स्काफोल्डिंग, लिफ्ट, अन्य उपकरण या संयंत्र, रेलवे/सड़क भाड़ा, मजदूरों की स्थिति और उत्पाद शुल्क में उतार चढ़ाव, बिक्री कर, चुंगी और रोजगार संबंधी अन्य करों व खर्चों का समावेश होना चाहिए।

The rates quoted by the vendor should be inclusive of all charges for scaffolding, lift, any other tools and plants, railway/road freight, labour conditions and fluctuations in the rates, excise duty, sales tax, octroi and any other taxes or expenditure for carrying out the employment.

4. किसी भी प्रकार की स्थिति में दरों में वृद्धि की अनुमति प्रदान नहीं की जाएगी।  
No escalation in rates will be allowed under any circumstances.

5. वेंडर कार्य -आदेश में दी गई निश्चित समयावधि में कार्य सम्पन्न नहीं कर पाता तो उसे निर्णीत हर्जाने के रूप में, भुगतान प्रति 500 रु., प्रतिदिन प्रति शाखा के हिसाब से अनुबंध के मूल्य का अधिकतम %10 कार्य पूरी की अवधि की समाप्ति पर देना होगा।

The vendor will be bound to carry out the entire work within the stipulated time as mentioned in the work order. The vendor shall have to pay liquidated damages for non completion of the job within the stipulated period @ Rs-500/- per day, per branch after the expiry of the period of completion subject to maximum of 10% of the contract value.

6. जैसा कि ऊपर उल्लेख किया है कि निर्णीत हर्जाने में बढ़ोतरी नहीं की जाएगी। यदि वेंडर का कोई दोष नहीं है तो कार्य की अवधि को निर्धारित सीमा से बढ़ाया जा सकता है।

The liquidity damages as mentioned above may not be enforced if the vendor applies for extension of time mentioning the reasons for such extension. Bank may grant such extension in case it is found that the vendor is not at fault for extending the work beyond the stipulated date of completion

7. वेंडर कार्य को पूरा करने के लिए आवश्यक सामान भले ही वह दिए गए मात्रा-बिल में सम्मिलित न हो, लाने के लिए बाध्य होगा। यदि टेंडर से अतिरिक्त कार्य की दर व्युत्पन्न होती है और ऐसी स्थिति में यदि वह निविदा में शामिल न हो तो बाजार कीमत, अपव्यय सहित सामग्री और मजदूरी की लागत के अतिरिक्त %15 टैक्स और वेंडर के लाभ के अनुरूप होगा।

The vendor will be bound to carry out items of work necessary for completion of the job even though the same is not included in the Bill of quantity. Rates for the extra work, if any, shall be derived from the tender. In case the same has not been included in the tender, then the same will be worked out on the prevailing market cost of the materials and labour, including wastage plus 15% towards tax & vendors profit.

8. वेंडर को कार्य समाप्ति के पश्चात सारा मलबा साफ करके, फर्श की सफाई, धुलाई अपनी लागत पर करनी होगी और साइट को व्यवस्थित करके देना होगा।

The vendor shall remove all malba etc. wash and clean the floors at their own cost and hand over the site in proper manner on completion of the work.

9. वेंडर दोष दायित्व की अवधि में सभी प्रकार के दोषों को दूर करेगा यदि वेंडर दोष दूर करने में असमर्थ रहता है तो बैंक उन कमियों को पूरा करेगा और समस्त खर्चा वेंडर के प्रतिभूति जमा / बकाया बिल राशि में से काट लिया जाएगा।

The vendor shall attend to all defects noticed during the defect liability period. If the vendor fails to attend the defects, Bank will rectify those defects and the expenditure incurred on this account will be recovered from the security deposit/pending dues to them.

10. वेंडर सभी प्रकार के सामान की टूट फूट से और चोरी से बचाव हेतु पूरे प्रबंध करेगा।

The vendor shall make adequate arrangements for watch & ward of his materials and shall ensure safety, breakage, and any theft of materials fixed or unfixed by them.

11. वेंडर द्वारा जो भी कार्य किए जाने हैं पहले बैंक से अनुमोदन लेगा और किसी भी स्टेज पर कोई कमी पायी जाती है तो उसे दूर करेगा और बेकार सामान को निर्माण स्थल से हटाएगा।

The work executed should be got approved by the Bank and the vendor shall rectify any bad workmanship pointed out at any stage and remove from site all the rejected materials immediately.

12. वेंडर श्रम कानून के तहत आवेदन, जो भी कर्मचारी उसके या एजेंट के द्वारा रखे गए हैं उनके साथ हुई किसी भी प्रकार की दुर्घटना एवं क्षति के लिए जिम्मेदार होगा।

The vendor shall be responsible for application of labour laws, compensation for injury and accident to person, whether employed by them or by their sub vendor(s).

13. वेंडर सुनिश्चित करेगा कि बैंक की संपत्ति को कोई क्षति न हो और कोई भी सुसज्जित संरचना /फिटिंग खराब न हो / यदि कोई नुकसान होता है तो वह अपने खर्च पर उसकी मरम्मत कराएगा।

The vendor shall ensure that no damage is caused to Bank's property/or any decorative structure/fittings, while carrying out the work. The renderer will have to rectify / make good such damage at their cost.

14. वेंडर द्वारा रोजगार में लिए गए व्यक्तियों के प्रति मुआवजा अधिनियम के अंतर्गत जिम्मेवार होगा। बैंक इस एवज में किसी भी प्रकार का मुआवजा देने के लिए जिम्मेवार नहीं होगा।

The vendor shall ensure that the workmen employed by them for execution of the work are suitably covered against workmen's Compensation Act, ESI and other legislative enactments applicable for such works and the Bank shall be liable for payment of any compensation etc in this regard.

15. कार्य बैंक के दिशा निर्देशों के अनुसार होगा। जिन कार्यों में शोर शराबा या व्यवधान होता है वे कार्य बैंक कार्य के उपरांत पूरे किए जाएंगे और इस हेतु कोई अतिरिक्त भुगतान नहीं किया जाएगा।

The work shall be carried out as per Bank's instruction and the work which creates noise/disturbances are to be carried out during non-office hours and no extra payment shall be made on this account.

16. वेंडर सिस्टम लगाने के दौरान किसी भी कार्य) जिसे कवर किया जाएगा (से संबंधित जांच करने हेतु बैंक को नोटिस देगा।

The vendor shall give due notice to the Bank to check the measurements of any work which is likely to be hidden before covering the same.

17. यदि कार्य को पूरा करने में या दोष को ठीक करने में विलम्ब होता है तो बैंक को यह अधिकार होगा कि वह किसी दूसरी एजेन्सी से वेंडर के जोखिम एवं लागत पर कार्य पूरा कराए।

In case, there is delay in completion of the work or removable of the defects in time, Bank shall be free to engage another agency to get the job done at vendors risk and cost.

18. संवैधानिक कटौतियां जैसे आयकर एवं अन्य लागू कर वेंडर के प्रत्येक बिल से काटे जाएंगे।

Statutory deductions like income tax and other applicable taxes shall be deducted at source from each payment of the vendor.

19. कार्य शुरू करने की तिथि पत्र द्वारा सूचित तिथि से सात दिन तक मानी जाएगी।

The date of commencement of the work will be the date of award letter plus seven days.

20. कार्य पूरा करने की तिथि बैंक द्वारा निर्धारित समय सीमा तथा साइट बैंक को वापिस देने पर मानी जाएगी।

The date of completion of the work will be the time specified for the completion of the work and handing over of the site to the bank.

21. दोष दायित्व समय एक वर्ष का है जो कार्य पूरा होने के बाद तथा साइट सुपुर्दगी के बाद ही माना जाएगा।

Defect liability period is one year from the date of completion of the work and handing over of site to Bank.

22. तार का भुगतान वास्तविक नाप तोल के बाद ही होगा। बिना बैंक के लिखित आदेश के वेंडर तार के गुणवत्ता मात्रा में बदलाव नहीं करेगा।

The payment for wiring will be made on the basis of the actual measurements. The vendor will not deviate from the type of wire mentioned in the Bill of quantity without Bank's permission in writing.

23. यदि कार्य में देरी बैंक की वजह से है तो बैंक कार्य पूरा करने का समय बढ़ा देगा, परंतु वेंडर किसी भी प्रकार की क्षतिपूर्ति या नुकसान का दावा नहीं करेगा।

In case the delay in completion of the work pertains to the Bank, Bank will grant extension of time for completion of the work and the vendor shall not make any claim for compensation or damages in relation thereof.

24. बैंक को विभागीय एवं अन्य रूप से भी कार्य की प्रकृति में बदलाव, उसमें बढ़ोतरी या घटाने का पूरा अधिकार होगा।

25. The Bank has the right to alter the nature of work and to add or omit any item of work or has the right to get the same carried out departmentally or otherwise and such alterations shall be carried out without prejudice to the vendor.

26. यदि वेंडर कार्य को छोड़ देता है अथवा पूरा करने में असमर्थ है या समय से पूरा नहीं करता है या करार की शर्तों को मानने में असमर्थ रहता है तो बैंक करार समाप्त करने का पूरा अधिकार है।

The Bank has the right to terminate the contract, if the vendor abandons the work or fails to commence and complete the work in time, or fails to abide by the contract conditions.

27. किसी भी प्रकार का अंतरिम भुगतान नहीं किया जाएगा।

No interim payment will be made.

28. बैंक अंतिम भुगतान सफलतापूर्वक कार्य पूरा होने पर करेगा। बैंक अंतिम भुगतान में से सभी प्रकार की कटौतियों का समायोजन करेगा। जैसे -टी.डी.एस .की कटौती और %10 दोष दायित्व हेतु) एक वर्ष के लिए (सुरक्षित रखेगा।

Final payment shall be made after successful completion of the work and after adjustment of deductions mentioned hereinabove and deduction of TDS etc with retention of 10 percent as defect liability for one year.