

## **Request for Proposal (RFP)** **(ROSAIF: SEC: RFP: 02)**

**Empanelment of vendors for Comprehensive Annual Maintenance Contract (CAMC) and Annual Rate Contract (ARC) for Supply, Installation and Maintenance of Security Equipments (Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers) at Branches/Offices/ATMs of Union Bank of India - Saifabad & Mahabubnagar Region**

**Note: This document contains 60 pages including this cover page.**

**Regional Office - Saifabad**  
Union Bank of India  
No. 3-12-73, 3rd Floor, Harsha Towers  
Rock Town Colony, LB Nagar,  
Hyderabad - 500068  
Email: [zohyd2@unionbankofindia.com](mailto:zohyd2@unionbankofindia.com)

**REQUEST FOR PROPOSAL**

**Empanelment of vendors for Comprehensive Annual Maintenance Contract (CAMC) and Annual Rate Contract (ARC) for Supply, Installation and Maintenance of Security Equipments (Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers) at Branches /Offices /ATMs of Union Bank of India - Saifabad & Mahabubnagar Region**

Sealed offers in two-bid system are invited from vendors/ firms/ suppliers of good repute, having their own Office in Twin Cities (Hyderabad/ Secunderabad), for Comprehensive Annual Maintenance Contract (CAMC) and Annual Rate Contract (ARC) of Security Equipments (Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers) provided at Branches/Offices/ATMs of Union Bank of India, falling under the jurisdiction of specific Regional Offices in Telangana State Viz. Regional Office Saifabad, and Regional Office Mahabubnagar.

Reputed vendors/ firms/ suppliers in the business of Supply, Installation and Maintenance of above Security Equipment (Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers) for Banking Industry and meeting the eligibility criteria as mentioned in the tender document may apply. The period of empanelment shall be for three years tentatively with effect from 01 Jan 2021. Though the empanelment will be for three years, the contract period will be renewed every year based on satisfactory performance of the vendor. In special cases, the empanelment period can be extended beyond three years for a specified period not exceeding one year for circumstances unforeseen.

RFP document can be obtained from Regional Office, Saifabad, at the above mentioned address/email on payment of **Rs.2000/- (Rupees Two Thousand only)** (Non-Refundable) by way of Demand Draft favoring Union Bank of India payable at Hyderabad. RFP can also be downloaded from the Bank's website [www.unionbankofindia.co.in](http://www.unionbankofindia.co.in) or from Government e-procurement portal [www.eprocure.gov.in](http://www.eprocure.gov.in) . For RFP document downloaded from website, the Demand Draft of **Rs.2000/- (Rupees Two Thousand only)** (Non-Refundable) favoring Union Bank of India payable at Hyderabad shall be submitted with Techno-Commercial Offer.

### IMPORTANT DATES AND POINTS

Date of commencement of issue of RFP	23.11.2020
Date of Pre-Bid Meeting	02.12.2020 at 3:00 PM
Last date for submission of RFP	15.12.2020 at 5:00 PM
Date and Time of Opening Technical Bids	16.12.2020 at 3.00 PM
Date and Time of Opening Price Bids	Specified date and time will be intimated separately only to the vendors who are approved for empanelment.
Cost of RFP Document (Non Refundable)	Rs 2000/- by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for Electronic Alarm System	Rs 20,000/- (Rupees Twenty Thousand only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for CCTV System	Rs 1,00,000/- (Rupees One Lakh only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for Fire Alarm System	Rs 50,000/- (Rupees Fifty Thousand only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for Fire Extinguishers	Rs 20,000/- (Rupees Twenty Thousand only) by DD favoring Union Bank of India payable at Hyderabad

Please note that EMD to be submitted individually for EAS, CCTV System, FAS and Fire Extinguishers is as tabulated above. However, if any vendor bids for multiple items then the vendor should submit separate EMDs for each item.

Offers from vendors/ firms/ suppliers not having their own office in Twin Cities (Hyderabad/ Secunderabad) will not be considered. All conditions and parameters will be evaluated with reference to the vendors submitting the tender.

A Pre-Bid meeting to clarify any point will be held on **02.12.2020 at 3:00PM** at the address mentioned above. Prospective bidders are requested to submit their points for clarification during Pre-Bid Meeting, latest by **01.12.2020 within office hours**.

Initially only Technical Bids will be opened on the date mentioned above. Price Bids of only those bidders who are approved for empanelment shall be opened in the presence of the bidders or their authorized representatives, on a date specified subsequently.

The Bank reserves the right to reject any/ all applications without assigning any reason whatsoever.

## SCOPE

1. Approximate region wise scope of Branches, Offices and ATMs of Union Bank of India, which have been provided with security equipment/ systems/ fire extinguishers, falling under the jurisdiction of specific Regional Offices in Telangana State Viz. Regional Office Saifabad and Regional Office Mahabubnagar is tabulated below. The scope mentioned is for entire jurisdiction of the respective Regional Offices and does not pertain to any particular centre or where the respective Regional Offices are located.

Sl	Regional Office	Branches	Offices	Offsite ATMs
1	Saifabad	83	1	45
2	Mahabubnagar	85 +02 CC	1	17
<b>Total</b>		<b>170</b>	<b>2</b>	<b>62</b>

**Please note:** The scope provided above is indicative and may increase or decrease at the time of awarding contract or during the contract period based on operational requirement of the Bank. The scope for ATMs may be considerably lesser due to rationalisation post amalgamation and having multiple machines in a single location.

## INTRODUCTION

2. **Comprehensive Annual Maintenance Contract (CAMC)**
  - (a) With respect to Electronic Alarm System, CCTV System and Fire Alarm system, CAMC entails Quarterly Preventive Maintenance and Corrective Maintenance (as and when required) of systems which are already existing / newly installed in Branches/Offices/ATMs of Union Bank of India under the jurisdiction of specific Regional Offices in Telangana State Viz. Regional Office Saifabad and Regional Office Mahabubnagar.
  - (b) All the equipments, i.e. new installations as well as those already existing in Branches/ Offices/ ATMs (irrespective of its make, model etc) falls under the scope of Comprehensive Annual Maintenance Contract (CAMC).
  - (c) CAMC covers all equipment, cabling, wiring, controller, components etc. (irrespective of make, model and condition). In Total, the vendor has to keep the equipment/ system fully operational without any additional cost to the Bank other than the CAMC charges agreed upon. Only exception will be Batteries and Hard Disk Drives (HDD), which have crossed its OEM warranty period, for which charges shall be paid extra as per approved rates.
  - (d) No CAMC charges will be paid during warranty period of new installations. However the selected vendor will have to render services of Preventive Maintenance and Corrective Maintenance to the branches during Warranty period also.
  - (e) In any Branch/ Office/ ATM, if any Electronic Alarm System, CCTV System and Fire Alarm System, which has already completed its **service life of 06 Years**, becomes totally defective and cannot be repaired then a “Beyond Economical Repair” Certificate duly countersigned by Branch Manager has to be submitted to the respective Regional Office. Further instructions regarding repairs/ replacement/ upgradation of the particular equipment/ system will be given by the Regional Office, on a case to case basis.

- (f) With respect to Fire Extinguishers, CAMC means Servicing, Hydraulic Pressure Testing and Refilling of Fire Extinguishers, which are already provided/ newly installed in Branches/ Offices/ ATMs of Union Bank of India, falling under the jurisdiction of specific Regional Offices in Telangana State Viz. Regional Office Saifabad and Regional Office Mahabubnagar, as per schedule provided in the RFP.
- (g) In any Branch/ Office/ ATM, if any of the Fire Extinguishers has completed its approved service life (as per applicable standards provided in the RFP), then “Service Life Completed” Certificate for the Fire Extinguisher(s), duly countersigned by Branch Manager, has to be submitted to the respective Regional Office. Further instructions regarding repairs/ replacement of the particular Fire Extinguisher(s) will be given by the Regional Office, on a case to case basis.
- (h) Detailed scope of CAMC for Electronic Alarm System, CCTV System, Fire Alarm System and Fire extinguishers are provided separately in the RFP.

### 3. Annual Rate Contract (ARC)

- (a) ARC will be for supply and installation of new Electronic Alarm System, CCTV System, Fire Alarm system and Fire Extinguishers in Branches/ Offices/ ATMs of Union Bank of India, falling under the jurisdiction of specific Regional Offices in Telangana State Viz. Regional Office Saifabad and Regional Office Mahabubnagar.
- (b) Detailed scope of ARC for Electronic Alarm System, CCTV System, Fire Alarm System and Fire extinguishers are provided separately in the RFP.

### TENURE OF EMPANELMENT

- 4. The period of empanelment shall be for three years tentatively with effect from 01 Jan 2021. Though the empanelment will be for three years, the contract period will be renewed every year based on satisfactory performance of the vendor. In special cases, the empanelment period can be extended beyond three years for a specified period not exceeding one year for circumstances unforeseen.

### GENERAL TERMS & CONDITIONS

- 5. The general terms and conditions are as below:-
  - a) The CAMC and ARC for Supply, Installation and Maintenance of Security Equipments will be given only to those vendors/ firms/ suppliers having their own office in Twin Cities (Hyderabad/ Secunderabad) which has technically qualified staff of sufficient strength, well equipped repair facility as well as warehousing facility for maintaining sufficient stock of spares.
  - b) Price Bids will be invited on a one time basis at the time of three year empanelment of vendors to determine L1 Bidder (s). Rates fixed at the time of empanelment will be non-negotiable and no upward revision will be permitted during the period of empanelment.
  - c) The Bank reserves the right to distribute the work to L2, L3, provided L2 and / or L3 bidder (s) give written willingness to match L1 price. However, the ratio of work distribution of L1:L2:L3 shall be 50%:30%:20% of the total scope of work. Therefore, the lowest tendering vendor shall not have sole claim over the complete order.
  - d) The locations allocated to the bidders shall be decided by the Bank, on its own discretion, based on capability of the bidder to provide the required service in

the particular locations and operational requirement of the Bank. Vendor (s) shall not have claim over any particular locations.

- e) Reputed vendors/ firms/ suppliers in the business of for Supply, Installation and Maintenance of the mentioned Security Equipments/ Systems and Fire Extinguishers for Banking Industry shall be preferred.
- f) At any point in time during the empanelment period, the empanelled vendor (s) should be ready to take over the work from any other vendor who provides unsatisfactory services to the Bank within contract period, at the discretion of the Bank.
- g) At any point in time during the empanelment period the empanelled vendor(s) should be willing to accept the AMC of any existing equipment as per the requirement of the Bank.

#### MINIMUM ELIGIBILITY CRITERIA FOR EMPANELMENT OF VENDORS

6. For empanelment of vendors and/or for contracting, the minimum eligibility criterions and their relevant proof documents required to be submitted are as under:
  - (a) The vendor should be Original Equipment Manufacturer (OEM) or Authorized Channel Partner or Authorized Dealer or Authorized Distributor of the OEM. For authorized channel partner/ dealer/ distributor ink signed copy of authorization letter from the OEM must be submitted in original. The certificate so furnished should clearly mention the period for which such authorization is valid and firm name, address and contact details from where after sales services shall be provided to the Bank.
  - (b) The vendor should have minimum Five Years experience in carrying out work of similar nature in Public/Private Sector Banks & Public Sector undertakings (Proof Documents- Work orders and completion certificate from Banks substantiating providing services since last five years).
  - (c) The vendor should be active in the concerned field with not less than Five Years of experience in dealing with the products offered. (Proof Documents to be submitted).
  - (d) **Good Product Quality and Robustness:** The vendor must produce substantive proof for meeting BIS standards for the products for which the standard exist and should conform to those standards.
  - h) **Good after Sales Service:** The Firm should have at least one of its own office with landline phone and email facility in Twin Cities (Hyderabad/ Secunderabad) which has technically qualified staff of sufficient strength, well equipped repair facility as well as warehousing facility for maintaining sufficient stock of spares.
  - (e) The vendor should have an Income Tax/PAN and should have filed valid IT returns for last three years. (Proof documents - Copy of valid PAN Card and IT Return Acknowledgement copy for last three years).
  - (f) The vendor should have a Registration for Service Tax / GST and should have been allotted with Registration number (Proof document - Valid Registration Certificate with GSTIN).
  - (g) The average annual financial turnover during the last three years, ending 31<sup>st</sup> March of the previous financial year, should be minimum **Rs. One Crore** for those vendors who are bidding for EAS/ CCTV/ FAS and **Rs. Thirty Lakhs** for those vendors who are bidding only for Fire Extinguishers (Proof Document - Audited Balance Sheet and Profit & Loss Account Statement for the last three financial years).



- (h) The Vendors should have valid test report from the Regional Electronic Test Development centers and respective BIS certification for the equipments offered by them, as applicable. (Proof Document - Attested copies or original Proof, if any)
- (i) Firms should have Registration under Shops & Establishments Act in the state and in the location as per the regional requirement of the bank. (Proof Document - Attested copy of Registration Certificate)
- (j) The proposed/ offered security equipments should be of an established brand and should be in the market for last five years.

### TWO BID SYSTEM OFFER

- 7. The offer should be submitted in **One Large Sealed Envelope** super scribed “**Offer for CAMC & ARC for Supply, Installation and Maintenance of Security Equipments/ Fire Extinguisher**” which shall contain **Two Separate Sealed Envelopes** i.e. the first sealed envelope containing the Technical Bid documents including cost of RFP & EMD (Super scribed Technical Bid) and the second sealed envelope containing the Price Bid only (Super scribed Price Bid). The Offer should be submitted at Regional Office - Saifabad, Union Bank of India, No. 3-12-73, 3rd Floor, Harsha Towers, Rock Town Colony, LB Nagar, Hyderabad - 500068, latest by **15.12.2020 at 5:00 PM.**

### TECHNICAL BID

- 8. The Technical Bid should be complete in all respects and contains all information asked for in this document. **It should not contain any price information.** The Technical Bid should comprise of the following:
  - a) Covering letter on the prescribed format (Annexure-I).
  - b) Cost of RFP Forms in form of Demand Draft for **Rs.2000/- (Rupees Two Thousand only)** (Non Refundable) issued by a scheduled commercial bank favouring Union Bank of India, payable at Hyderabad, if RFP downloaded from Bank’s website.
  - c) Earnest Money Deposit (s) “**As Applicable**” in the form of Demand Draft (s) issued by a scheduled commercial bank favouring Union Bank of India, payable at Hyderabad.
  - d) Vendor profile as per **Annexure II**
  - e) Details of reference sites as per **Annexure III**
  - f) Declaration of compliance as per **Annexure IV**
  - g) Technical Specification of Product for which the firm is bidding as per **Annex V**
  - h) Product Brochures/leaflets/manuals etc.

### PRICE BID

- 9. The Price Bid should contain CAMC and ARC Rates for Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers, **ONLY** as per format provided as **Annexure VI**. The Bank will first shortlist the vendors who are eligible for empanelment and the vendors will be informed accordingly. Price Bids of only vendors approved for empanelment shall be opened in the presence of the vendors or their authorized representatives **on a date specified subsequently**. Authorized representatives should carry a letter on the company’s letter head signed by authorized signatory which authorizes them to attend the Price Bid opening.

### OPENING OF BIDS

10. Technical Bids will be opened **on 16.12.2020 at 3.00 PM.** The bidders / their representatives may be present at the time of opening of the Technical Bid Offers. No separate intimation will be sent in this regard to the bidders for deputing their representatives. The Technical Bids will be opened at the time and date stipulated above irrespective of the number of bidders or their representatives present. Authorized representatives should carry a letter on the company's letter head signed by authorized signatory which authorizes them to attend the Technical Bid opening.
11. Price Bids of only vendors approved for empanelment shall be opened in the presence of the vendors or their authorized representatives, **on a date specified subsequently.** Authorized representatives should carry a letter on the company's letter head signed by authorized signatory which authorizes them to attend the Price Bid opening.

### EARNEST MONEY DEPOSIT

12. Earnest Money Deposit (s) **“As Applicable”** should be submitted in the form of demand draft (s) issued by a scheduled commercial bank favouring Union Bank of India, payable at Hyderabad, along with the Technical Bid.
13. EMD to be submitted individually for EAS, CCTV System, FAS and Fire Extinguishers is as tabulated below. However, if any vendor bids for multiple items then the vendor should submit separate EMDs for each item.

Earnest Money Deposit (EMD) for Electronic Alarm System	<b>Rs 20,000/-</b> (Rupees Twenty Thousand only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for CCTV System	<b>Rs 1,00,000/-</b> (Rupees One Lakh only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for Fire Alarm System	<b>Rs 50,000/-</b> (Rupees Fifty Thousand only) by DD favoring Union Bank of India payable at Hyderabad
Earnest Money Deposit (EMD) for Fire Extinguishers	<b>Rs 20,000/-</b> (Rupees Twenty Thousand only) by DD favoring Union Bank of India payable at Hyderabad

14. **Offers not accompanied with Earnest Money Deposit will not be accepted.** This amount will be forfeited if, having been selected by the Bank for the job, the bidder refuses to accept the order or having accepted the order, fails to carry out his obligations mentioned therein. Bank Guarantee in lieu of Earnest Money Deposit will not be accepted. **No interest will be payable on the Earnest Money Deposit. The Earnest Money Deposit will be refunded to the unsuccessful Offerers. The Earnest Money paid by the successful Offerers will be released only after contract is issued and PBG is submitted by the vendor.**



## PROCEDURE FOR EMPANELMENT/CONTRACT

15. A designated Committee of the Bank shall open the bids in the presence of bidders or their authorized representatives on the date & time defined in the RFP. Initially only technical bids of bidders shall be opened and evaluated. The sealed price bids of only those vendors who are approved for empanelment shall be opened to decide L1 bidder/s after completion of empanelment process. The technical bids & price bids shall be evaluated in stages given below:

### Stage I

- (a) Technical bids from bidders not accompanied with Demand Draft/cash receipt for cost of RFP and Demand Draft for EMD shall be summarily rejected except for vendors claiming exemption on Cost of RFP & EMD who are registered with National Small Industries Corporation (NSIC) provided proof document for registration is submitted.
- (b) The registration with NSIC of vendors claiming exemption shall be verified with NSIC based on the proof documents and if found ineligible for such exemption, the bid of such vendors shall be summarily rejected.

### Stage II

- (a) Bidders qualifying Stage-I shall be evaluated against the stipulated minimum eligibility criterion purely based on proof of documents submitted. Documents submitted along with the Tender shall be considered as the final & conclusive proof.
- (b) A comparative chart capturing information on compliance of minimum eligibility criterion shall be prepared and evaluated as per submitted proof of documents.
- (c) Offers not complying or adhering with any of the minimum eligibility criterion or without relevant proof of documents shall not qualify this stage.

### Stage III

- (a) Veracity of documents/facts of Bidders qualifying Stage-II will be further verified through site visits to the offices/service centre/tie-up arrangements of the bidders.
- (b) Feedback from reference sites as indicated in the tender document by the bidders shall be obtained in writing and evaluated.
- (c) A comparative chart shall be prepared to capture the details of verification carried out during site visit, feedback obtained from reference site.
- (d) Bidders with unsatisfactory feedback from reference sites or documents/facts not found in order on verification as per stipulated criteria applicable shall not qualify this stage.

### Stage IV

- (a) Product's demonstration shall be seen by the evaluation committee to check their specifications, standards and quality. The products of bidders not conforming to required standards and specification will not qualify.
- (b) Bidders qualifying this stage shall be eligible for empanelment on approval by the competent authority for a period of three years.

**Stage V**

- (a) Price bids of only bidders approved for empanelment shall be opened in presence of the empanelled bidders or their authorized representatives at the given date, time and place.
- (b) Price bids of bidders shall be evaluated and L1 price bid(s) shall be decided from the qualifying price bids.
- (c) Written offers shall be given to L2 and/or L3 bidders to match L1 price and a written confirmation for matching L1 price shall be obtained.
- (d) Approval to allocate work to the qualified bidder(s) (L1,L2,L3 etc.) shall be obtained from the competent authority and held on record.
- (e) Non-qualifying bidders will be intimated with reason(s) for non-qualification.
- (f) The Bank reserves the right to distribute the work to L2, L3, provided L2 and / or L3 bidder (s) give written willingness to match L1 price. However, the ratio of work distribution of L1:L2:L3 shall be 50%:30%:20% of the total scope of work. Therefore, the lowest tendering vendor shall not have sole claim over the complete order.
- (g) The locations allocated to the bidders shall be decided by the Bank, on its own discretion, based on capability of the bidder to provide the required service in the particular locations and operational requirement of the Bank. Vendor (s) shall not have claim over any particular locations.
- (h) Vendor (s) approved for the contract shall be issued with contract letter indicating the contract period, rates and terms & conditions of the contract and acknowledgement copy shall be held on record.

**METHODOLOGY OF ARRIVING AT L1 VENDOR AND L1 RATES**

- 16. First the L1, L2, L3 vendors for each system will be finalized and subsequently the approved L1 rates for various packages, components and CAMC shall be finalized based on lowest rates quoted by L1, L2,L3 vendors.
- 17. **For Electronic Alarm System, Fire Alarm System and Fire Extinguishers**, new package installations should contain all the components mentioned below. However, Package Cost to the Bank (including Transport/Labour/Installation and other Charges) (Less GST) for **BRANCH**, will be used to arrive at L1/L2/L3 Vendors for each system, Fire Extinguishers.

<b><u>Electronic Alarm System Branch</u></b>	<b><u>Fire Alarm System For Branch</u></b>	<b><u>Fire Extinguishers for Branch</u></b>
4 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Panic Switches (05 Nos) + Magnetic Switch (Heavy Duty) (01 Nos) + Magnetic Switch (Light Duty) (01 Nos) + PIR Sensors (03 Nos) + Vibration Sensors (03 Nos)+ LDRs (02 Nos) + External Hooter (02 Nos)+ Battery Backup for 8 Hrs + Required cabling and conduit.	4 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Smoke Detectors (08 Nos) + Heat Detectors (02 Nos) + Flame Detectors (02 Nos) + MCPs (02 Nos) + RI (02 Nos) + Battery Backup for 8 Hrs + Required cabling and conduit.	9 Litres Water (Stored Pressure) Type Extinguishers (01 Nos) + 3 Kgs ABC Mutipurpose Type Extinguishers (02 Nos) + 2 Kgs CO2 Extinguishers (03 Nos) + Required wall mounted brackets / floor stands.

<u>Electronic Alarm System ATM</u>	<u>Fire Alarm System For ATM</u>
2 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Panic Switches (01 Nos) + Magnetic Switch (Heavy Duty) (01 Nos) + Magnetic Switch (Light Duty) (01 Nos) + Vibration Sensors (01 Nos) + External Hooter (01 Nos ) + Battery Backup for 8 Hrs + Required cabling and conduit.	2 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Smoke Detectors (02 Nos) + Heat Detectors (01 Nos) + Flame Detectors (01 Nos) + Battery Backup for 8 Hrs + Required cabling and conduit.

18. For CCTV System, new package installations should contain all the components mentioned below. However, Package Cost to the Bank (including Transport/ Labour/ Installation and other Charges) (Less GST) for Stand Alone 16 Channel DVR Based CCTV System will be used to arrive at L1/L2/L3 Vendors.

<u>32 Ch NVR Based CCTV System</u>		
32 Channel NVR (01 Nos) + HDD of 32 TB + IP Based HD IR Dome Camera Fixed Focal (20 Nos) + IP Based HD IR Bullet Camera Varifocal (10 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + POE Switch 8 Channel X 4 Nos + Display Monitor 43 Inch (01 Nos) + 6U Rack + Required cabling and conduit.		
<u>16 Ch DVR Based CCTV System</u>	<u>8 Ch DVR Based CCTV System</u>	<u>4 Ch DVR Based CCTV System</u>
16 Channel Stand Alone DVR (01 Nos) + HDD of 32 TB + IR Dome Camera Fixed Focal (10 Nos) + IR Bullet Camera Varifocal (04 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + PSUs for the Cameras (08 Nos) (@ only 02 cameras per PSU) + Display Monitor 26 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.	8 Channel Stand Alone DVR (01 Nos) + HDD of 16 TB + IR Dome Camera Fixed Focal (04 Nos) + IR Bullet Camera Varifocal (02 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + PSUs for the Cameras (04 Nos) (@ only 02 cameras per PSU) + Display Monitor 21 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.	4 Channel Stand Alone DVR (01 Nos) + HDD of 8 TB + IR Dome Camera Fixed Focal (02 Nos) + IR Bullet Camera Varifocal (01 Nos) + Pin Hole Camera (01 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (01 Nos) + PSUs for the Cameras (02 Nos) (@ only 02 cameras per PSU) + Display Monitor 19 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.

19. After finalization of L1/L2/L3 vendors for EAS, CCTV System and FAS, the lowest Package Cost for other packages of EAS, CCTV System and FAS, lowest rates for individual components, as well as lowest cost for CAMC of the systems, quoted by L1/L2/L3 bidders, would be frozen as approved rates (L1 Rates) for CAMC and ARC.
20. After finalization of L1/L2/L3 vendor for Fire Extinguishers, the lowest rates for each type of fire extinguisher, individual components of Fire Extinguishers, Servicing, HPT and Refilling Charges quoted by L1/L2/L3 bidders would be frozen as approved rates (L1 Rates) for Supply, Installation, Servicing, HPT and Refilling of Fire Extinguishers.

21. The Bank reserves the rights to compare the rates quoted by any vendor with the present market trend, if required. If it is observed that any vendor has quoted inappropriate / unviable rates which are grossly varying from the present market trend, then the best rate as per present market trend will be considered by the committee, at its own discretion.

#### **NO ERASURES OR ALTERATIONS**

22. All details in the Technical Bid and Price Bid should be completely filled up. Corrections or alterations, if any should be authenticated.

#### **VALIDITY OF OFFER**

23. The offer should be valid for period of six months from the last date for submission of the offer.

#### **NO COMMITMENT TO ACCEPT LOWEST OR ANY TENDER**

24. 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.

#### **TECHNICAL SPECIFICATIONS OF EQUIPMENT / SYSTEM**

25. Technical Specifications of Electronic Alarm System, CCTV System, Fire Alarm System and Fire Extinguishers are elaborated in the succeeding paragraphs. Below mentioned specifications furnished are broad guidelines for the equipments. Wherever the specifications are not furnished or specific, the specification shall be as per their respective IS standards/ ISO standards or as per best engineering practice and they shall not be diluted.
26. The design standards, materials or components used manufacturing process shall all conform to the respective BIS Code and any other standards mentioned elsewhere in this tender as applicable. However, the following specifications, technical parameters, etc, are furnished by way of basic or minimum requirement for the end result.
27. The vendor shall be solely responsible for the entire design/ specification, safety aspects of the entire equipment and related works as detailed in the tender notwithstanding the specifications furnished hereunder.
28. If Bank upgrades the technical specifications of any system/ equipment/ sub component, then fresh quotations will be obtained from the empanelled vendors only and rates will be finalized accordingly.

## TECHNICAL SPECIFICATION OF ELECTRONIC ALARM SYSTEM

29. Technical specifications of Electronic Alarm System are tabulated below.

1.	Electronic Alarm System should have a minimum of 2/4 Zones microprocessor based Control panel, keypad (password) operated type or key operated for switch on/off and/or mode change.
2.	In Day Mode, EAS should have provision to connect minimum 20 panic switches.
3.	In Night Mode, EAS should have provision to connect 08 anti burglary sensors like Passive Infra Red Sensors (PIR Sensor), Vibration Sensor, Magnetic Sensor, LDR and Magnetic Switches (Light Duty and Heavy Duty).
4.	The programme menu should have PIN/password protection. There should be option for changing password without requirement of any additional hardware.
5.	Control Panel should be compatible with all types of standard sensors and panic switches available in the market.
6.	It should have facility to switch between “Day (Home)” and “Night (Away)” modes automatically at pre-programmed times and also it can be manually overridden without external hardware. It should have programmable time delay of alarm activation in day mode and immediate activation in night mode.
7.	Control Panel must have an internal hooter (At least 5W, Min 90dB) & capacity to connect at least two external hooters. Sound of external Hooter must be audible up to 500 mtrs (At least 15w, 150db). Hooter must switch off after a predetermined time (20 minutes).
8.	System should be (4 wired) tamper proof. i.e, must activate alarm in case of any tampering with control panel / wires / switches / sensors / hooter. It should also have facility of auto shut after specified time.
9.	Panel should have sufficient (12v, 7Ah) battery along with battery charger with over charging and deep discharging protection. The battery should provide minimum backup of 8 hours stand by and 20 minutes in alarming condition.
10.	PIR sensor must be QUAD PIR Dual Technology (IR & Microwave - 30 ft range) , Pet Immune type. The system should be Pet immune with immunity against lizards, rats/cats/other insects, weighing less than 20 Kgs.
11.	EAS control panel should have inbuilt PSTN Based Auto Dialer and in addition should have provision for connecting external GSM Based Auto Dialer as and when required, with facility to dial at least 10 phone numbers and deliver voice message of at least 20 seconds.
12.	External GSM Based Auto Dialer wherever installed must be always in standby mode and should have visual indication for “system ON” function and activate automatically on alarm (security / fire) being activated. <ul style="list-style-type: none"> <li>• Auto dialer should have facility to dial at least 10 phone numbers and deliver voice message of at least 20 seconds.</li> <li>• Auto dialer must have display panel showing phone number being dialed.</li> <li>• Auto dialer must be user friendly. Must have facility to View/ update the phone numbers fed in auto dialer without external hardware.</li> <li>• Auto dialer must have a “switch off” facility for use in case of continuous fault.</li> </ul>
13.	BIS certification or Test report from ERTL / ETDC specifying make & model of control panel is must. For imported panels, UL/CE/FCC certification is a must.
14.	All required wires / cables must be ISI marked copper FRLS type in flexible/ straight metallic conduit casing.

## TECHNICAL SPECIFICATION OF CCTV SYSTEM

30. Technical specification of Embedded (Stand Alone) DVR Based 4/8/16 Channel CCTV System and NVR Based 32 Channel CCTV System are tabulated below.

### DVR BASED CLOSE CIRCUIT TELEVISION SYSTEM

#### A. EMBEDDED (STAND ALONE) DVR UNIT (4/8/16 CHANNEL): SPECIFICATIONS

1.	Operating System	-	Embedded RTOS / LINUX / WINDOWS
2.	CPU	-	32 bit DSP or more powerful
3.	Minimum internal HDDs for video recording	-	4 Channel DVR - 8 TB 8 Channel DVR - 16 TB 16 Channel DVR - 32 TB
4.	Video surveillance Hard Disk	-	Surveillance grade DVR HDD
5.	Ports	-	2 SATA ports for 4 channel DVR, 8 SATA ports for 8/16 channel DVRs, Each SATA port should support 8TB HDD. Two USB 3.0 ports (spare for external devices in addition to port for mouse).
6.	Video Input	-	4 channel (only for ATMs) or 8 channel or 16 or channel PAL (NTSC to PAL conversion not acceptable)
7.	Display Speed	-	100 fps for 4 channel (only for ATMs) (25 fps for each channel) or more 200 fps for 8 channel (25 fps for each channel) or more 400 fps for 16 channel (25 fps for each channel) or more
8.	Compression Method	-	Advanced Video Coding (AVC) H.264/MPEG4 Part-10 or more
9.	Display Split Screen (Screen Mode)	-	1,4 for 4 channel, 1,9 for 8 channel, 1,16 for 16 channel
10.	Recording Resolution	-	1080P (1920P X 1080P) Full HD or more
11.	Recording Speed	-	25 fps at 1080P for each channel at flexible frame-rate option
12.	Independent Recording setting per channel	-	Continuous, Motion detection, Sensor activated, Flexible date/time Daily schedule
13.	Watermarking	-	Support law enforcement grade video authentication. Watermarking should be verifiable through player software or proprietary software which shall be provided free of any charges
14.	Monitoring	-	4 or 8 or 16 channel Real time monitoring - Single mode & Quad/3x3/4x4 mode - Sequential switching mode - Switching out monitoring



15.	Searching/Playback	- Date & time based - 1 CH-searching and all channel simultaneous searching - Replay up to 25 fps in each channel and simultaneous playback of all channels
16.	Motion Detection	- Should support Motion Detection/Area Demarcation setting per camera
17.	Back up facility	- External portable HDD/ CD-RW/ DVD/ Pen drive/ Memory card 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. Capability to automatically upload recorded data at a pre-determined time to bank's own/ leased Private Cloud infrastructure.
18.	User Interface	- On screen Graphic User Interface (GUI)
19.	System Recovery after power failure	- Auto-Rebooting
20.	Operation for setting and searching	- User friendly
21.	Multiple functionality	- Should support pentaflex functions to perform all DVR 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.
22.	Compatibility	- Should support all types of cameras.
23.	Certification	- CE or FCC or UL Certification

#### **B. HD COLOUR DOME/BULLET CAMERA (FIXED/VARI-FOCAL): SPECIFICATIONS**

1.	Camera Type	- Colour Infrared HD Dome Cameras (i.e. Colour cameras that switch to black and white (IR Mode) automatically at night
2.	Image Sensor	- 1/3" High sensitive CCD/Progressive scan CMOS
3.	Signal Format	- PAL
4.	Effective Pixels	- 2 MP (1920PX1080P) full HD or more
5.	Infrared LED Coverage Range	- Night vision not less than 10 meters
6.	Minimum Illumination (LUX)	- 0.01 LUX @ (1.2 F, AGC on) without IR & 0 LUX with IR On
7.	S/N Ratio	- 50 dB or more
8.	Lens	- 3.6 mm for fixed focal cameras 2.8 mm to 12 mm for Vari-focal cameras
9.	Weather-proof quality for outdoor cameras	- Outdoor weather proofing of IP66 rating or more
10.	Vandal proof quality for outdoor cameras	- Vandal proofing of IK-10 rating or more
11.	Wide Dynamic Range (WDR)	- True WDR with adjustable range (0 dB - 120dB) Digital WDR (DWDR) not acceptable

12.	Operating Temperature	-	From -10 degrees to +55 degrees Celsius
13.	Certification	-	FCC/CE/UL

### **C. HD COLOUR PIN HOLE/HIDDEN CAMERA: SPECIFICATIONS**

1.	Camera Type	-	HD Resolution Pinhole/Hidden Cameras
2.	Image Sensor	-	1/3” High sensitive CCD
3.	Signal Format	-	PAL
4.	Effective Pixels	-	752X582 with 700TVL Resolution
5.	Minimum Illumination (LUX)	-	0.01 LUX @ (1.2 F, AGC on)
6.	S/N Ratio	-	50 dB or more
7.	Lens	-	2.8 mm for fixed focal cameras
8.	Wide Dynamic Range(WDR)	-	Should support WDR
9.	Operating Temperature	-	From -10 degrees to +55 degrees Celsius
10.	Certification	-	FCC/CE/UL

### **D. MONITOR: SPECIFICATIONS**

1.	Monitor Type	-	LED Monitor supporting full HD(1080P)
2.	Size	-	19”/21” screen or more for 4/8 channel DVR 21”/26” screen or more for 16 channel DVR
3.	Operating Temperature	-	From -10 degrees to +55 degrees Celsius
4.	Certification	-	FCC/CE/UL

### **E. CABLES: SPECIFICATIONS**

1.	For HD Camera	-	RG-6 Co-axial cable with ISI marking
2.	For power	-	2 Core/36 Power Unarmored cable with ISI marking
3.	Cable laying	-	In ISI marked PVC Conduit pipes

## **NVR BASED CLOSE CIRCUIT TELEVISION SYSTEM**

### **A. NVR 32 Channel Network Video Recorder**

System Parameter	Technical Specification
Main Processor	Quad-core embedded processor
Operating System	Embedded LINUX
<b>Display</b>	
Interface	2 HDMI (1 HDMI up to 3840x2160, Different Source), 1 VGA
Resolution	3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768
Multi-screen	1 <sup>st</sup> screen: 32CH: 1/4/8/9/16/25/36
	2 <sup>nd</sup> screen: 1/4/8/9/16/25/36
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

<b>Video Detection and Alarm</b>	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering, Scene Change Detection
Alarm input	16 Channel ( Low Level Effective)
Alarm Output	4 Channel ( NO/NC Programmable)
<b>Playback and Backup</b>	
Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network/Internal SATA burner/eSATA Device
<b>Storage</b>	
Internal HDD	8 SATA Ports, up to 8 TB capacity for each HDD
eSATA	1 e SATA port
RAID	RAID 0, RAID 1, RAID 5
<b>Auxiliary Interface</b>	
USB	4 ports (2 USB 2.0, 2 USB 3.0)
RS232	1 Port, for PC Communication
RS485	1 Port, for PTZ Control , keyboard
<b>Audio and Video</b>	
IP Camera Input	16/32 Channel
Two-way Talk	1 Channel Input, 1 Channel Output
<b>Recording</b>	
Compression	H.265+ /H.265/H.264/MJPEG/MPEG4
Resolution	12MP/8MP/5MP/4MP/3MP/1080P/ D1&etc.
Record Rate	320Mbps Incoming
Bit Rate	16kbps~20Mbps for per channel
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 sec
<b>Network</b>	
Interface	1 RJ-45 ports (10/100/1000Mbps)
Network Function	TCP/IP, DHCP, Cloud P2P, DNS, DDNS, NTP, SADP, SMTP, NFS, FTP UpnPM ,HTTPS
Interoperability	ONVIF, PSIA, CGI Conformant
<b>Certifications</b>	<b>UL/FCC/CE and BIS approved</b>

## **B. 02 MEGAPIXEL IP BASED HD IR DOME CAMERA WITH FIXED LENS**

<b>Parameter</b>	<b>Technical Specification</b>
Image Sensor	1/2.8" 2 Megapixel progressive scan CMOS or better
Effective Pixels	1920(H)x1080(V)) or better
Electronic Shutter	Auto/ Manual, 1/3(4)~1/100000s
Video Frame Rate	25/30 fps @ 2 Mega Pixel
Scanning System	Progressive
Min. Illumination	0.01Lux/ F1.4(Color); 0Lux/ F1.4(IR on)

S/N Ratio	More than 50dB
Min. IR Array LEDs Length	Up to 30m
Day/ Night	Auto(ICR) / Color / B/W
Back Light Compensation & WDR	D WDR
White Balance	Auto/ Manual
Focal Length (lens)	3.6 mm Fixed lens
Video Compression	H.265+, H.265, H.264, H.264H, MJPEG
Resolution Frame Rate	2 M(1920×1080)/ D1(704×576/704×480)/ CIF(352×288/352×240) Main stream : {2 M/ 1080P (1 ~ 25/30fps)} & Sub stream : D1/ CIF (1 ~ 25/30fps)
Bit Rate	H.265/ H.264H: 40K ~ 8192Kbps; MJPEG: 40K~16384Kbps
Network Ethernet	RJ-45 (10/ 100Base - T)
Protocol	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UpnP, SMTP, IGMP, 802.1x, QoS, Ipv6
Compatibility	ONVIF, PSIA, CGI
Power Supply	DC12V, PoE (802.3af)
Working Environment	-30°C~+60°C / Less than 95%RH (no condensation)
Ingress Protection	IP66 or above
Certification	UL/FCC/CE and BIS approved

### **C. 02 MEGAPIXEL IP BASED HD IR VERIFOCAL LENS BULLET CAMERA**

Parameter	Technical Specifications
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.01@F1.4, 0 Lux with IR
Shutter Speed	Auto/Manual, 1/3(4)-1/100000s
Lens	2.8 mm to 12 mm motorize@F1.4,
Day & Night	IR cut filter with auto switch
DNR (Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	120 dB True WDR
<b>Compression Standard</b>	
Video Compression	Main stream: H.265.H.265+
Video Bit Rate	32 Kbps to 8 Mbps
Dual Stream	Support
<b>Image</b>	
Max. Resolution	1920 × 1080
Main Stream Max.	50Hz: 25fps @(1920 × 1080, 1280 × 960, 1280 × 720)
Sub-stream	50Hz: 25fps @(704 × 576, 640 × 480, 352 × 288, 320 × 240)
Image Settings	Brightness, saturation, contrast, sharpness are adjustable via web browser or client software
Day/Night Switch	Support auto, scheduled
Others	Mirror, BLC (area configurable), region of interest (support 1 fixed region)
Detections	Motion detection
Alarms	Video tampering, network disconnected, IP address conflicted, HDD full, HDD error
Protocols Standard	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP,

	RTCP, NTP, UpnP, SMTP, IGMP, 802.1X, QoS, Ipv6, ONVIF (PROFILE S, PROFILE G), PSIA, CGI, ISAPI
General Function	One-key rest, anti-flicker, password protection, privacy mask, watermark, IP address filter
<b>Interface</b>	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Reset	Support
<b>General</b>	
Operating Conditions	-30 °C to 60°C, humidity: 95% or less (non- condensing)
Power Supply	DC12V ± 25%, PoE (802.3af)
Ingress Protection	IP 67
IR array Range	Up to 30 mtr
Certification	UL/FCC/CE and BIS approved

#### **D. POE + SWITCH 08 CHANNEL**

Interface	8 x 10/100 Mbps PoE ports, UPLINK PORT 2 x 10/100/1000
Port Standards & Functions	Ports 1 to 8 compliant with 802.3at

#### **E. POE+ SWITCH 16 CHANNEL SPECIFICATIONS**

Interface	16 x 10/100Mbps PoE ports UPLINK PORT 2 x 10/100/1000
Port Standards & Functions	Ports 1 to 4 compliant with 802.3at • Ports 5 to 16 compliant with 802.3af

#### **F. POE+ SWITCH 24 CHANNEL SPECIFICATIONS**

Interface	24 x 10/100 Mbps PoE ports UPLINK PORT 2 x 10/100/1000
Port Standards & Functions	Ports 1 to 4 compliant with 802.3at • Ports 5 to 24 compliant with 802.3af

#### **G. OTHER COMPONENTS OF CCTV**

Hard Disk Drive (SATA II or III)	Video Enterprise Series (Rated for 24/7 operation).
Hard Disk Drive (SATA II or III)	Video Surveillance Series (Rated for 24/7 operation).
Capacity	2TB , 4TB, 6TB ,8TB
<b>Monitor</b>	
Screen size	43" diagonal LED
Resolution (Min)	Minimum 1920*1080 Pixels - full HD
<b>Monitor</b>	
Screen size	32" diagonal LED
Resolution (Min)	Minimum 1920 x 1080 Pixels - full HD
<b>Data Cable CAT-6</b>	
Category	CAT-6E
Type	Unarmored
<b>PVC Conduits for cabling should be ISI marked</b>	

<b>6 U Rack - (Wall Mount)</b>	Power Strip: 6 Socket power supply: 1 No. Equipment Mounting Tray: 1 No Mounting screws & studs: 1 pack Transparent front door with Lock and 2 Fans. Provision for cable routing at the bottom of Rack.
<b>2 U Rack - (Wall Mount)</b>	Power Strip: 6 Socket power supply: 1 No. Mounting screws & studs: 1 pack Transparent front door with Lock and Fans. Provision for cable routing at the bottom of Rack.

### TECHNICAL SPECIFICATION OF FIRE DETECTION AND ALARM SYSTEM

31. Technical specifications of Fire Alarm System with inbuilt PSTN Based Auto Dialer are tabulated below.

#### A. CONTROL PANEL SPECIFICATIONS

1.	2 / 4 zone Main Control Panel & repeater control panel should be latest microprocessor technology based and as per IS:2189-2008.
2.	The panel should be compatible with all type of standard conventional detectors.
3.	The Panel should have a manual OFF switch for manual operation in case of continuous fault alarm. The Panel should have 2 or 4 zones or more and zone disables switches accordingly to the number of zones.
4.	On activation it should initiate Audio alarm (The sound characteristic of the alarm should be continuous and similar throughout the protected premises) as well as visual signal on sector/zonal panel of the control panel.
5.	The Size of the control panels is normally referred by number of zones. Each zone can be connected with the conventional detectors not exceeding 20.
6.	The Panel should be have inbuilt with SMPS with spike/Transient reduction circuit, to avoid any false alarming in case of transient/abrupt voltage fluctuations.
7.	The Panel should have Test Certificate with details like Model No., Serial No., Zones, etc.
8.	The Brochures for the Panel shall be submitted. The Panel should have approvals / listing of BIS / UL / LPCB / FM / VDS.
9.	Panel should have sufficient (12v, 7Ah) battery along with battery charger with over charging and deep discharging protection. The battery should provide minimum backup of 8 hours stand by and 20 minutes in alarming condition.
10.	FAS control panel should have inbuilt PSTN Based Auto Dialer and in addition should have provision for connecting external GSM Based Auto Dialer as and when required, with facility to dial at least 10 phone numbers and deliver voice message of at least 20 seconds.

#### B. SMOKE DETECTORS AND SPACING

1.	The System should have smoke detectors of both ionization type (below false ceiling) and optical type (above false ceiling) conforming to the IS: 2189-2008. Both ionization and optical type smoke detectors will be installed in the ratio 2:1.
2.	For the smoke detector, the Spacing between two detectors should be 24 feet and spacing from the boundary wall or cabin wall should be not more than 12 feet. Every cabin / enclosed area likes AHU, Lift Machine Room, Pump Room, UPS



	Room; Electrical Distribution Room etc should have a separate smoke detector.
3.	The detector should have LED, which should flash periodically to indicate that the detector is in proper working mode and glow continuously if smoke is detected.
4.	After designing the detector spacing, it shall be cross-checked to ensure that there is at least one smoke detector for every 100 m <sup>2</sup> of the compartment area.
5.	At the time of installation and prior to commissioning, every detector should be allotted an identification number. All the detectors inside rooms / cabins and above false ceiling or generally hidden should have external response indicators (R.I.) sited at prominent place.
6.	The detectors should have approvals / listing of BIS / UL /LPCB / FM / VDS.

### **C. HEAT DETECTORS AND SPACING**

1.	For the heat detector, Spacing between two heat detectors should be 17 feet conforming to the IS: 2189-2008. These detectors should be installed in Cooking Kitchen, Pantry etc.
2.	After designing the detector spacing, it shall be cross-checked to ensure that there is at least one heat detector for every 50 m <sup>2</sup> of the compartment area.
3.	The detector should have LED, which should flash periodically to indicate that the detector is in proper working mode and glow continuously if heat is detected.
4.	At the time of installation and prior to commissioning, every detector should be allotted an identification number. All the detectors inside rooms / cabins and above false ceiling or generally hidden should have external response indicators (R.I.) sited at prominent place.
5.	The detectors should have approvals / listing of BIS / UL /LPCB / FM / VDS.

### **D. UV / IR FLAME DETECTORS AND SPACING**

1.	The detector can be installed in UPS Room, Electrical Distribution Room and Storage Area etc where chances of fire are higher. This detector should be installed to conforming IS: 2189-2008.
2.	The detector should have LED, which should flash periodically to indicate that the detector is in proper working mode and glow continuously if flame is detected.
3.	At the time of installation and prior to commissioning, every detector should be allotted an identification number. All the detectors inside rooms / cabins and above false ceiling or generally hidden should have external response indicators (R.I.) sited at prominent place.
4.	The detectors should have approvals / listing of BIS / UL /LPCB / FM / VDS.

### **E. EXTERNAL AUTO DIALER**

1.	<p>External GSM Based Auto Dialer wherever installed must be always in standby mode and should have visual indication for “system ON” function and activate automatically on alarm (security / fire) being activated.</p> <ul style="list-style-type: none"> <li>• Auto dialer should have facility to dial at least 10 phone numbers and deliver voice message of at least 20 seconds.</li> <li>• Autodialer must have display panel showing phone number being dialed.</li> <li>• Autodialer must be user friendly. Must have facility to View/ update the phone numbers fed in autodialer without external hardware.</li> </ul>
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	<ul style="list-style-type: none"> <li>Autodialer must have a “switch off” facility for use in case of continuous fault situations.</li> </ul>
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### **E. OTHERS ITEMS / DEVICES**

1.	All the wiring shall be by means of 2 core 1.5 sq. mm copper conductor FRLS armored and shielded copper cable.
2.	The Manual Call Point (MCPs) should be installed in entry & exit point of the floor. The MCPs should be break glass type with hammer or thumb press type.
3.	The sounders for fire alarm system should be electronic hooters/horns/electric bell having a frequency range of 500 to 1000 Hz.

### **TECHNICAL SPECIFICATION OF FIRE EXTINGUISHERS**

32. Technical specifications of Fire Extinguishers to be provided at Branches / Offices / ATMs are mentioned below.

Sl	Type of Fire Extinguisher	Capacity	IS Standards	Scale
1	Water (Stored Pressure) Type	9 Litres	IS 15683:2006	01 Nos for every 2000 Sq Feet
2	ABC Multipurpose Type	3 Kgs	IS 15683:2006	02 Nos for every 1000 Sq Feet
3	CO2 Type	2 Kgs	IS 15683:2006	03 Nos for every 1000 Sq Feet
4	In general for an area of 2000 Sq Feet maximum of 06 Nos of Fire Extinguishers shall be installed with combination of all above types of fire extinguishers			
5	ABC Type Extinguishers should be located as to be available within 15 meters radius			
6	Water and CO2 Type Extinguishers should be located as to be available within 10 meters radius			
7	All Fire Extinguishers should have CM/L number and fire rating.			
8	<p><b>Markings:</b> In addition, fire extinguisher shall be clearly marked by marker as stated as per latest IS standards with the following :-</p> <ul style="list-style-type: none"> <li>Name or Trade mark of manufacturer</li> <li>BIS License number (CM/L- xxxxxxxx)</li> <li>Type of media of fire extinguisher</li> <li>Base material and its percentage for Powder</li> <li>Model number</li> <li>Rating and classification of fire extinguisher</li> <li>Acceptable to use at temperature from      to      degree C</li> <li>Empty mass in kg</li> <li>Nominal full mass in kg/ Gross mass with tolerance or Min &amp; max gross mass in kg</li> <li>Year of manufacture</li> <li>Sequential serial number</li> <li>following statement as applicable -</li> <li>For rechargeable extinguishers: “Recharge immediately after any use”</li> <li>For disposable extinguishers ; “Discard immediately after any use”</li> <li>Operating, recharging, inspection and maintenance instructions in the form of an etched or embossed metal name plates or band or an acceptable pressure sensitive nameplates or by silk screening of paint. Operating instructions also to be shown by pictorial view.</li> <li>Name of Clean agent to be marked on the label of fire extinguisher</li> <li>In case of extinguishers covered by Gas Cylinder Rules, stamp of approval should be embossed on the neck of cylinder.</li> <li>The Co2 cylinder should have certificate from CCE and the serial no should be embossed on the cylinder.</li> </ul>			

## TECHNICAL REQUIREMENTS OF CAMC

### ELECTRONIC ALARM SYSTEM, CCTV SYSTEM AND FIRE ALARM SYSTEM

33. Technical Requirements of CAMC for Electronic Alarm System, CCTV System and Fire Alarm System are as enumerated below.

#### General Requirements

- (a) CAMC will be for Quarterly Preventive Maintenance and Corrective Maintenance of Electronic Alarm System, CCTV System and Fire Alarm system which are already provided/ newly installed in Branches/Offices/ATMs of Union Bank of India, in the specified areas.
- (b) All the equipments, i.e. new installations as well as those already installed in Branches/ Offices/ ATMs (irrespective of its make, model etc) falls under the scope of Comprehensive Annual Maintenance Contract (CAMC).
- (c) CAMC for Electronic Alarm System, CCTV System and Fire Alarm System covers all equipment, cabling, wiring, controller etc. (irrespective of make, model and condition). In Total, the vendor has to keep the equipment/ system fully operational without any additional cost to the Bank other than the CAMC charges agreed upon. Only exception will be Batteries and HDD which have crossed OEM warranty period, for which charges shall be paid as per approved rates.
- (d) No CAMC charges will be paid during warranty period of new installations. However the vendor will have to render services to the branches during Warranty period also.
- (e) In any Branch/ Office/ ATM, if any Electronic Alarm System, CCTV System and Fire Alarm System which has already completed its **service life of 6 Years** becomes totally defective during the contract and cannot be repaired then a “Beyond Economical Repair” Certificate duly countersigned by Branch Manager has to be submitted to the respective Regional Offices. Further instructions regarding repairs/replacement/upgradation of the particular equipment / system will be given by the Regional Office, on a case to case basis.
- (f) Cases where equipment / system become defective due to reasons other than normal wear and tear like physical damage by miscreants, short circuits, natural calamity, water seepage etc, which are beyond the control of the vendor, shall be represented to the Bank and decision on replacement and charges applicable, if any, shall be intimated by the Bank on a case to case basis.
- (g) Any system causing multiple failures inspite of repeated repairs by the contracted vendors should be replaced with new system of equivalent or higher specification. 04 or more defects in a quarter for the same system will be considered as multiple failures of the system.

#### Preventive Maintenance (PM)

- (a) The vendor shall carryout PM of the equipment/ system at least once in every quarter during which he shall test the satisfactory operation of the system.
- (b) PM Visit is apart from any breakdown visits (emergency fault repair calls) which may emanate in between the two Preventive Maintenance visits. The fault repair calls will not be treated as quarterly visits and such visits will be free of cost during CAMC.

- (c) The technician should explain the working of equipment/ system to the Branch Staff and hand over the list of Telephone No's fed in the Auto dialer of the systems, as applicable, to the branch manager and endorse the same in PM visit report.
- (d) If any component of the equipment/ system is found defective, the same shall be replaced immediately and the system may be made fully operational at no additional cost to the Bank. Technician should always be in possession of sufficient spares required for Preventive Maintenance. Only exception will be Batteries and HDD which have crossed OEM warranty period for which charges shall be paid as per approved rates.
- (e) On completion of PM Visit, the technician shall provide detailed Service Report for the system to the Branch Manager.
- (f) 100% Branches/ Offices/ ATMs allocated to the vendor should mandatorily be visited once in a quarter failing which penalty will be imposed as mentioned subsequently in the RFP. Penalty shall be deducted from any payment due to be paid by the Bank to the Vendor, which includes RMD/PBG.
- (g) Consolidated report on PM carried out at all the Branches/ Offices/ ATMs during the quarter should be submitted to respective Regional Office within 7 days after each quarter along with copies of service reports, for records.
- (h) Failing to visit 100 % branches/ offices/ ATMs for quarterly PM will be treated as lapse in service and repeated lapse in service would lead to cancellation of contract and empanelment.

#### PREVENTIVE MAINTENANCE - ELECTRONIC ALARM SYSTEM

<b>Sensors :</b>	
1.	All sensors installed in the system should be checked for proper connection
2.	Check all the sensors are working
<b>Control Panel:</b>	
3.	Check all the indicators (On/ Off/ Zone/ Test/ Alarm/ Day-Night Mode) are functioning
4.	Activate the Alarm System by activating any five of the sensors. The sensors should be numbered and the serial number of the sensors checked should be entered in the log book. ATM outer door magnetic sensor, PIR sensor and strong room door magnetic sensors are to be checked and activated during all AMC visits
<b>Wire &amp; Cable:</b>	
5.	Check wiring and cable harnesses for wear and fray.
6.	Check to make sure cable is dressed properly.
7.	Check connectors and cable entry points for loose wiring.
<b>Auto-dialer:</b>	
8.	Check whether the mobile numbers of the present branch staff is fed in the Auto Dialer. If the staff members have changed since the last quarterly visit, Mobile Numbers of new staff are to be stored in the Auto Dialer and old numbers are to be deleted from the Auto-Dialer.
9.	On updating the auto-dialer, the list of the mobile numbers is to be entered in the Auto-dialer log sheet. This log sheet is to be kept in the Alarm Panel.
<b>Battery Back up:</b>	
10.	Check the batteries, for a minimum of 8 hours backup
11.	Voltage of the batteries is to be recorded
12.	If required, replace the batteries
<b>Hooters:</b>	

13.	Activate the Alarm system in both Day and Night Modes and check the sound of alarm of all the hooters is clearly audible up to 500 meters
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### PREVENTIVE MAINTENANCE - CCTV SYSTEM

<b>Camera &amp; Housing:</b>	
1.	Camera / lens focus and auto iris adjusted properly.
2.	Camera field of view is adjusted to customer's requirements.
3.	Camera / housing viewing window are clean, inside and out.
4.	Camera lens is dust free.
5.	Interior of camera enclosure is clean and dry.
<b>Wire &amp; Cable:</b>	
6.	Check wiring and cable harnesses for wear and fray.
7.	CCTV Power supply is tapped from UPS Supply and the system cannot be switched off without opening the Network Rack
8.	Check to make sure cable is dressed properly.
9.	Check connectors and cable entry points for loose wiring.
10.	Coaxial cable is transmitting an adequate video signal to control room. Signal should be free of distortion, tearing, hum-bars, Electro Magnetic Interference and rolling, etc.
11.	Make sure all coaxial connectors are insulated from conduit and pull boxes.
<b>Control Equipment:</b>	
12.	CCTV Recorded images of last 90 days (minimum requirement is available in the system)
13.	Camera settings are set to motion based recording, 25 fps & 1080P
14.	DVR's are functioning properly and provided distortion free recording.
15.	All control equipment is operational. Switchers allow proper sequencing and callup. Multiplexers are properly encoding and decoding.
16.	Clean monitor screens, control panels, and keyboards with a diluted cleaning solution.
17.	Monitors are free from picture burn-in, and distortion.
18.	Monitors have proper contrast and brightness.
19.	Check all coaxial connectors on the back panels for loose connections.
20.	Check all power connections to insure AC plugs are not loose or power cables frayed.
<b>DVR Network Rack / Cabinet:</b>	
21.	Check DVR is secured inside a metallic rack / cabinet with locking facility
22.	Check the function of magnetic sensor fitted on the network rack door / Cabinet door.

### PREVENTIVE MAINTENANCE - FIRE ALARM SYSTEM

<b>Smoke / Heat / Flame Detectors</b>	
1.	Open the detector housing and clean the unit
2.	Check all the detectors are working
3.	Interior of detector enclosure is clean and dry.
<b>Control Panel</b>	
4.	Check all the indicators (On / Off / Zone / Test / Alarm / Silence) are functioning
5.	Test the system using the Test button provided
6.	Activate the Alarm System by activating one of the detectors. The detectors



	should be numbered and the serial number of the detector checked should be entered in the log book.
<b>Wire &amp; Cable:</b>	
7.	Check wiring and cable harnesses for wear and fray.
8.	Check to make sure cable is dressed properly.
9.	Check connectors and cable entry points for loose wiring.
<b>Auto-dialer:</b>	
10.	Check whether the mobile numbers of the present branch staff is fed in the Auto Dialer. If the staff members have changed since the last quarterly visit, Mobile Numbers of new staff are to be stored in the Auto Dialer and old numbers are to be deleted from the Auto-Dialer.
11.	On updating the auto-dialer, the list of the mobile numbers is to be entered in the Auto-Dialer log sheet. This log sheet is to be kept in the Alarm Panel.
<b>Battery Back up:</b>	
12.	Check the batteries, for a minimum of 8 hours backup
13.	Voltage of the batteries is to be recorded
14.	If required, replace the batteries
<b>Hooters:</b>	
15.	Activate the Alarm system and check the sound of alarm of all the hooters is clearly audible up to 500 meters

### Corrective Maintenance (CM)

- (a) In case any emergency fault occurs in between the two Preventive Maintenance visits, Branch or Regional Office shall intimate the same to the vendor by means of mail or telephone or message. The defect shall be attended on high priority and rectified immediately.
- (b) The maximum breakdown time for the equipment / system shall be 48 hours from the time of intimating the complaint over phone /email/message. If the vendor is not in a position to rectify the defect and make the system operational within the Turn Around Time (TAT), a standby unit meeting the specifications should be provided immediately.
- (c) 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 brand new equipment of equivalent capacity or higher capacity, during the currency of CAMC period.
- (d) If the Manufacturer/Authorized dealer doesn't replace the system within a complaint period of 4 week, bank will have the right to replace the faulty equipment with any other empanelled vendor and make good the book value of the faulty system from the contracted vendor responsible of the faulty equipment by any means.
- (e) For CCTV System, in addition to PM and CM, the vendor should provide CCTV Video backup free of cost in DVD or any other storage device provided by the bank, as and when requested.
- (f) On completion of CM Visit, the technician shall provide detailed Service Report for the equipment / system to the Branch Manager.
- (g) Copies of Service Reports of all branches where CM was undertaken during the quarter should be submitted to respective Regional Office within 7 days after each quarter, for records.



## FIRE EXTINGUISHERS

34. Technical Requirements of CAMC for Fire Extinguishers are as enumerated below.

### General Requirements

- (a) With respect to Fire Extinguishers, CAMC means Servicing, Hydraulic Pressure Testing and Refilling of Fire Extinguishers, which are already provided / newly installed in Branches/Offices/ATMs of Union Bank of India, as per schedule provided in the RFP.
- (b) All the Fire Extinguishers, i.e new installations as well as those already installed in Branches / Offices / ATMs (irrespective of its make, capacity etc) falls under the scope of Comprehensive Annual Maintenance Contract (CAMC).
- (c) No CAMC charges will be paid during warranty period of new installations. However the selected vendor will have to render services to the branches during Warranty period where the extinguishers have been installed by them.
- (d) In any Branch / Office / ATM, if any of the Fire Extinguishers has completed its approved service life (as per applicable standards provided in the RFP), then “Service Life Completed” Certificate for the Fire Extinguisher(s) duly countersigned by Branch Manager has to be submitted to the respective Regional Office. Further instructions regarding repairs/replacement of the particular Fire Extinguisher (s) will be given by the Regional Office, on a case to case basis.

### Servicing of Fire Extinguishers

The vendor shall carryout servicing of all fire extinguishers at least once in six months (Half Yearly). PM Visit is apart from any breakdown visits (emergency fault repair calls) that may be required which may emanate in between the two Preventive Maintenance visits. Six-Monthly maintenance tasks of fire extinguishers should be complied with, in order to keep the extinguishers in proper condition and fit to use. During the servicing visit, vendors should strictly adhere to the maintenance checklist given below.

100% Branches/ Offices/ ATMs allocated to the vendor should mandatorily be visited once in a quarter failing which penalty will be imposed as mentioned subsequently in the RFP. Penalty shall be deducted from any payment due to be paid by the Bank to the Vendor, which includes RMD/PBG.

### Water (Stored Pressure) Extinguishers

- (a) See that the extinguisher is in the allotted place and kept as per the plan.
- (b) Check the pressure gauge, discharge the extinguisher and check its performance.
- (c) Examine and verify that the pressure gauge or any other pressure indicating device fitted in is indicating the internal pressure correctly, if the extinguisher shows a loss of pressure of more than 10 percent, fill the pressure with nitrogen gas.
- (d) Examine the extinguisher body internally and externally for corrosion and damaged conditions with an illuminating probe. Damaged and corroded extinguishers should be removed from service.

- (e) Examine valve assembly, discharge hose, nozzle, strainer, vent holes, siphon tube and sealing washer etc. Replace them if not in good condition. Otherwise clean them thoroughly.
- (f) Check the operating mechanisms for free movement and clean, rectify or replace, if necessary.
- (g) Open the extinguisher, see the water level and throw away the old water.
- (h) Refill the cylinder with fresh and clean water.
- (i) Replace safety clip/wire seal or equivalent as originally fitted.
- (j) See the labels indicating fire extinguishers use or classification or both shall be placed on the front of fire extinguisher.
- (k) Make sure that the extinguisher is in proper condition and is not accidentally discharged.

### Water (Gas Cartridge Pressure) Extinguishers

- (a) See that the extinguisher is in the allotted place and kept as per the plan.
- (b) See the labels indicating fire extinguishers use or classification or both shall be placed on the front of fire extinguisher.
- (c) Examine the extinguisher body internally and externally for corrosion and damaged conditions with an illuminating probe. Damaged and corroded extinguishers should be removed from service. Corroded gas cartridge should also be replaced.
- (d) Examine the gas cartridge for mass. If there is loss of more than 10 percent of the original mass, the cartridge should be sent for recharging after being replaced with a charged one.
- (e) Examine the nozzle, plunger, strainer, vent holes, internal discharge tube and sealing washer; replace them if not in good condition. Otherwise clean them thoroughly.
- (f) Check the operating mechanism for free movement and piercing mechanism to see if these are working properly.
- (g) Open the extinguisher, see the water level and throw away the old water.
- (h) Refill the cylinder with fresh and clean water.
- (i) Slightly grease the threads and tighten the cap to the extent possible. Replace the protection caps of nozzle and plunger.

### Carbon-Dioxide Extinguishers

- (a) See that the extinguishers are in the allotted place.
- (b) See the labels indicating fire extinguishers use or classification or both shall be placed on the front of fire extinguisher.
- (c) Examine the extinguisher body for any corrosion or mechanical damage.
- (d) Examine that the safety clip is in position.
- (e) Clean the exterior of the cylinder with a dry and then a wet cloth.
- (f) Weigh the extinguisher. Compare the weight with the weight of a fully charged extinguisher, which is marked on the body. If the loss is more than 10 percent, send the extinguisher for recharging.
- (g) Clean and polish externally.
- (h) Examine hose and horn assembly. In case of trolley mounted extinguishers, examine the wheel carriage for free movement. Change the defective ones.

- (i) Make sure that the extinguisher is in proper condition and is not accidentally discharged.

### **Dry Chemical Powder (DCP) Extinguishers**

- (a) Withdraw the gas cartridge. Weigh the cartridge. If the loss of weight is more than 10 percent of the fully-charged contents, it should be replaced with a new cartridge.
- (b) See the labels indicating fire extinguishers use or classification or both shall be placed on the front of fire extinguisher.
- (c) See that the sealing disc is intact.
- (d) Check the piercing mechanism in the cap and check that the washer in the cap is soft and intact.
- (e) Empty the dry powder in a dry container and examine for caking and granulation. If granulation has taken place, change the powder. Otherwise retain the same powder for reuse.
- (f) Examine the extinguisher body internally for any damage or corrosion and replace corroded or damaged extinguishers.
- (g) Check the trigger nozzle for clogging and clean.
- (h) Check rubber hose for cracks.
- (i) Remove the inner shell and clean portholes.
- (j) Make sure that the extinguisher is in proper condition and is not accidentally discharged.

### **ABC Multi-Purpose Powder Type Extinguishers**

- (a) See that the extinguisher is in the allotted place and kept as per the plan.
- (b) See the labels indicating fire extinguishers use or classification or both shall be placed on the front of fire extinguisher.
- (c) The Extinguisher should be opened in a dry room and for a minimum possible time to avoid effect to atmospheric moisture on powder.
- (d) Examine and verify that the pressure gauge indicator or any other pressure indicating device fitted in is indicating the internal pressure correctly, if the extinguisher shows a loss of pressure of more than 10 percent, fill the pressure with nitrogen gas.
- (e) Examine extinguisher body externally. Damaged or corroded extinguisher should be replaced.
- (f) Check the operating mechanisms for free movement and clean, rectify or replace, if necessary.
- (g) Replace safety clip/wire seal or equivalent as originally fitted.
- (h) Make sure that the extinguisher is in proper condition and is not accidentally discharged.

### **Hydraulic Pressure Testing, Refilling and Replacement of Fire Extinguishers**

The vendor should carry out Hydraulic Pressure Test and Refilling of fire extinguisher in a cyclic manner as per the schedule given below.

Sl	Type of Extinguisher	Refilling Interval Years	HPT Interval Years	Test Pressure Kg/Cm2	Pressure maintained for minutes	Approved Service Life Years
1	Water Type (Gas Cartridge)	3	3	35	2.5	10
2	Water Type (Stored Pressure)	2	3	35	2.5	10
3	Dry Chemical Power DCP Type	3	3	35	2.5	10
4	ABC Powder Type (Stored Pressure)	3	3	35	2.5	10
5	Carbon Di Oxide (CO2) Type	5	5	250	2.5	15

35. Consolidated report on Servicing, HPT and Refilling carried out at Branches during each quarter should be submitted to respective Regional Office, within 7 days after each quarter, for records.

#### TECHNICAL REQUIREMENTS OF ARC

36. The requirements of Annual Rate Contract (ARC) are as enumerated below.
- ARC will be for supply and installation of new Electronic Alarm System, CCTV System, Fire Alarm system and Fire Extinguishers in Branches/Offices/ATMs of Union Bank of India, as and when required.
  - The vendor shall deliver the equipment / system / fire extinguishers at the Branch / Office / ATM as per the Purchase Order within 07 days from the issue date of Purchase Order.
  - The vendor shall install and commission the equipment / system / fire extinguishers and make them fully operational at the respective locations within 3 days after delivery; else the terms of Liquidated Damages (LD) will be applicable, as mentioned in the RFP.
  - The vendor should conduct detailed demonstration of the equipment / system / fire extinguishers to the branch staff, endorse the same in the Installation Report duly countersigned by the Branch Manager.
  - The bill for supply and installation should be submitted to the Branch along with the installation certificate for payment, as per the rates approved for the ARC.
  - One copy of invoice and Installation Report shall be submitted to respective Regional Office, for records.

#### PERFORMANCE BANK GUARANTEE

37. The vendors approved for the contract shall submit a Performance Bank Guarantee from a reputed Bank favouring Union Bank of India as per format in Annexure VII to the Regional Office Saifabad. The PBG shall be for a value equivalent to 10 % of annual payment to the vendor. PBG should remain valid for a period of sixty days beyond the date of completion of all contractual obligations.

#### RETENTION MONEY DEPOSIT (RMD) FOR EAS, CCTV SYSTEM, FAS

38. For new package installation of EAS, CCTV System and FAS, an amount equivalent to 10 % of Package Cost shall be held by the Bank as Retention Money Deposit and only balance of bill amount shall be released to the vendor. The RMD shall be released after the Warranty Period, subject to satisfactory PM/CM and Support by the vendor

during the period. It becomes the sole responsibility of the vendor to ensure that all RMDs which are due are collected from the respective branches on time. No interest is applicable on RMD Amount.

39. For Supply and Installation of Fire Extinguishers NO RMD IS APPLICABLE.

### WARRANTY

40. The offer must include comprehensive on-site warranty of minimum period of **One Year** from the date of installation and commissioning of new system. No CAMC charge will be admissible during the warranty period. However quarterly service visit is mandatory during warranty period also, else penalty will be levied as mentioned in the RFP subsequently. The penalty shall be deducted from any payment that is payable to the vendor, which includes RMD/ PBG.
41. Vendor shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of equipment, accessories etc. covered by the offer. Vendor must warrant all equipment, accessories, spare parts etc., against any manufacturing defects during the warranty period.
42. Warranty should not become void if Bank buys any other supplemental hardware which is not discussed in this document from a third party and installs it with these equipments. However, the warranty will not apply to such hardware items installed. The vendor is expected to ensure same maintenance standards clause.

### PAYMENT TERMS

43. The payment for CAMC and for any kind of supply and installation of equipment / system shall be made by the respective Branches/Offices, adhering to the following:
- Payment for CAMC will be made after the quarterly visit by respective Branches / Offices, as per approved rates of CAMC.
  - Payment for supply and installation shall be made by respective Branches / Offices after successful supply, installation, commissioning and demonstration of equipment / system, as per approved rates of ARC.
  - Payment shall be made to the vendor's Bank Account through online/NEFT/RTGS mode only as per the rate approved by Regional Office and on production of bill.
  - Branches/Offices shall scrutinize the bill and supporting documents for its correctness as per rates, terms & conditions of the contract. In case of any discrepancies, the same shall be immediately intimated to the vendor for rectification/compliance.
  - For new package installation of EAS, CCTV System and FAS, an amount equivalent to 10 % of Package Cost shall be held by the Bank as Retention Money Deposit and only balance of bill amount shall be released to the vendor. The RMD shall be released after the Warranty Period, subject to satisfactory PM/CM and Support by the vendor during the period. It becomes the sole responsibility of the vendor to ensure that all RMDs which are due are collected from the respective branches on time. No interest is applicable on RMD Amount. For Supply and Installation of Fire Extinguishers NO RMD IS APPLICABLE.
  - No centralized payment on behalf of branches will be undertaken at Regional Office under any circumstances.

## PENALTY AND LIQUIDATED DAMAGES

44. Penalties applicable for poor / lack of service during CAMC are as enumerated below.

- (a) 100% Branches / Offices / ATMs allocated to the vendor should mandatorily be visited once in a quarter (once in 06 months in case of fire extinguishers) including warranty period of the equipment, failing which penalty will be levied as tabulated below. Penalty shall be deducted from any payment due to be paid by the Bank to the vendor, which includes RMD/PBG.

Sl	Equipment / System	Penalty (Per Branch Per Quarter)
1	Electronic Alarm System	Rs 100/-
2	CCTV System	Rs 500/-
3	Fire Alarm System	Rs 250/-
4	Fire Extinguishers	Rs 50/- per branch per six month

- (b) Any defect in the equipment (EAS / CCTV/ FAS/ Fire Extinguishers) should be rectified within 48 hours of reporting the complaint. In case the equipment / system is down for more than 3 working days and no substitute is provided by the vendor, then penalty will be levied as tabulated below. Penalty shall be deducted from any payment due to be paid by the Bank to the vendor, which includes RMD/PBG.

Sl	Equipment / System	Penalty Per Day after 3 <sup>rd</sup> Day (Upto maximum of Rs 3000/-)
1	Electronic Alarm System	Rs 100/-
2	CCTV System	Rs 200/-
3	Fire Alarm System	Rs 200/-
4	Fire Extinguisher	Rs 100/-

- (c) Vendor (s) of CCTV System should respond within 24 hrs to request made by the branch to provide CCTV footage to police/court, failing which a penalty of Rs. 300.00 per day will be levied, from the 2<sup>nd</sup> day of placing request subject to a maximum of Rs. 3000/- per case. Penalty shall be deducted from any payment due to be paid by the Bank to the vendor, which includes RMD/PBG.

45. Liquidated Damages applicable for delay in Supply, Installation and Commissioning is as enumerated below.

- (a) The vendor shall deliver the equipment/system/fire extinguishers at the Branch / Office / ATM within 07 days from the issue date of Purchase Order.
- (b) The vendor shall install and commission the equipment/system/fire extinguishers and make them fully operational at the respective locations within 3 days after delivery; else the terms of Liquidated Damages (LD) will be applicable.
- (c) Liquidated damages at 0.5% of the total cost of equipment per site per week will be charged for every week's delay in delivery subject to a maximum of 5% of total equipment cost.
- (d) Liquidated Damages shall be deducted from any payment due to be paid by the Bank to the vendor, which includes RMD/PBG.



- (e) Part of week will be treated as a full week for this purpose.

### ASSIGNMENT OF OBLIGATION

46. The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the Bank's prior written consent.

### AVAILABILITY OF SPARES

47. Vendor should ensure that the spares for the product offered are available for at least 6 years from the day of installation of equipment. No obsolete equipment should be supplied to the bank.

### TERMINATION OF EMPANELMENT / CONTRACT

48. The Bank, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the vendor, may terminate this Empanelment / Contract in whole or in part, if the vendor fails to perform any obligation(s) under the Contract.
49. In the event of the Bank terminating the Contract in whole or in part, the Bank may procure, upon such terms and in such manner, as it deems appropriate, services similar to those undelivered, and the vendor shall be liable to the Bank for any excess costs for such similar services.
50. The Bank may at any time terminate the Empanelment / Contract by giving written notice to the vendor, if the vendor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the vendor.
51. The Bank may terminate the Empanelment / Contract in case the standard of service provided by the vendor has been found to be repeatedly poor or there has been repeated delay in supply, installation and commissioning of new equipment/system/fire extinguishers, by giving written notice of One Month.

### PATENTS RIGHTS

52. The vendor shall:-
- Indemnify the purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods, or any part thereof in India.
  - At their own expense, defend and indemnify the Bank against all third party claims or infringement of intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad.
  - Expediently extinguish any such claims and shall have full rights to defend it there from. If the Bank is required to pay compensation to a third party resulting from such infringement, the supplier shall be fully responsible for, including all expenses and court and legal fees. The Bank will give notice to the vendor of any such claim without delay, provide reasonable assistance to the vendor in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim.
  - Grant to the Bank a fully paid-up, irrevocable, non-exclusive license throughout the territory of India or abroad to access, replicate and use software (and other software items) if any, provided by the supplier, including-all inventions, designs and marks embodied therein in perpetuity.

## LIABILITY

53. Vendor's aggregate liability under the contract shall apply to third party claims for bodily injury/electric shock (including death) and damage to real property (due to malfunction of equipment) and tangible personal property caused by vendor's gross negligence/lapse or due to below standard equipments used by vendor. Vendor shall be liable for any indirect, consequential, or special damages due to malfunction of the security equipments / fire extinguisher under the agreement / purchase order.

## FORCE MAJEURE

54. Notwithstanding the above provisions, the successful bidder (s) shall not be liable for penalty or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the Bidder and not involving the Bidder's fault or negligence and not foreseeable. Such events may include, but are not restricted to, natural calamity, war, epidemics etc. If a Force Majeure situation arises, the Bidder shall promptly notify the Bank in writing of such condition and the cause thereof. Unless otherwise directed by the Bank in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means of performance not prevented by the Force Majeure event.

## UNDERTAKING BY VENDOR

55. The successful bidder (s) must give an undertaking that all components used in the equipment/ system/ fire extinguisher supplied are new and original and not refurbished. This must be submitted along with the Invoices else payment will not be released.

## SIGNING OF CONTRACT

56. If Union Bank of India decides, then the successful bidder(s) shall be required to enter into a contract with Union Bank of India within 7 days of the award of the tender or within such extended period as may be specified by Union Bank of India, Regional Office, Hyderabad Saifabad on the basis of the Tender Document, the Tender of the successful bidder (s), the letter of acceptance and such other terms and conditions as may be determined by the Bank to be necessary for the due performance of the work in accordance with the Bid and the acceptance thereof, with terms and conditions shall be contained in a Memorandum of Understanding to be signed at the time of execution of the Form of Contract. Bank shall have the option of terminating the contract during the contract period by giving a 1 month's written notice. In the absence of any formal contract, the copy of PO, the RFP document and other related documents will be treated as contract.

## GOVERNING LAW AND DISPUTES

57. The provisions of this tender shall always be subject to government notifications, any rules/ guidelines that may be in force from time to time. All disputes or differences whatsoever arising between the parties out of or in relation to the construction, meaning and operation or effect of these Tender Documents or breach thereof shall be settled amicably. If however the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the provisions of Arbitration and Conciliation Act 1996 or any statutory modifications or re-enactments thereof and the rules made there under and for the time being in force, shall apply to the arbitration proceedings. The arbitrator shall be appointed with the mutual consent of both the parties. However there is a provision of appeal if either party is not satisfied with the arbitration award.
58. During the arbitration proceedings the vendor shall continue to work under the Contract unless otherwise directed in writing by the bank or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator is obtained. The venue of the arbitration shall be Hyderabad, Telangana.
59. For further clarifications, if any, you may contact the following address:

The Regional Head  
Regional Office - Saifabad,  
Union Bank of India  
No. 3-12-73, 3rd Floor, Harsha Towers  
Rock Town Colony, LB Nagar,  
Hyderabad - 500068  
Email: [zohyd2@unionbankofindia.com](mailto:zohyd2@unionbankofindia.com)

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

To

The Regional Head  
Regional Office - Saifabad,  
Union Bank of India  
No. 3-12-73, 3rd Floor, Harsha Towers  
Rock Town Colony, LB Nagar,  
Hyderabad - 500068

Dear Sir,

**Sub : Your RFP for Empanelment of vendors for Comprehensive Annual Maintenance Contract (CAMC) and Annual Rate Contract (ARC) for Supply and Installation of Security Equipments and Fire Extinguishers at Branches /Offices /ATMs of Union Bank of India**

With reference to your tender notice published in News papers on \_\_\_\_\_ and the RFP published in your website with effect from \_\_\_\_\_, having examined and understood the instructions, terms and conditions forming part of the RFP, we hereby enclose our offer for Comprehensive Annual Maintenance Contract (CAMC) and Annual Rate Contract (ARC) for Supply and Installation of Security Equipments / Fire Extinguishers at Branches /Offices /ATMs of Union Bank of India as detailed in your above referred RFP.

We confirm that we have not been disqualified by any PSBs/PSUs for providing the above services.

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

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

We hereby confirm that we have read the terms and conditions given of the RFP and agree to them fully.

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 Demand Draft (s) as mentioned below, favouring Union Bank of India and payable at Hyderabad, towards Cost of RFP and Earnest Money Deposit (s), as applicable.

Sl	Details	Demand Draft No	Date	Issuing Bank	Amount (Rs)
1	Cost of RFP				
2	EMD for EAS				
3	EMD for CCTV System				
4	EMD for FAS				
5	EMD for Fire Extinguishers				

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

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

**FIRM / VENDOR PROFILE**

1. Name of the Firm and Address:
  
2. Year of Establishment:
  
3. Status of the firm: (Whether Pvt. Ltd. company / Public Ltd. company/ Partnership Firm)
  
4. Name of the Chairman/Managing Director/CEO/Country Head (as the case may be):
  
5. Whether registered with the Registrar of Companies/Registrar of Firms in India. If so, mention number and date and enclose Registration Certificate copy.
  
6. Primary nature of Business of the Firm:
  
  
7. Number of years of experience in the field of Supply, Installation and Maintenance of Security Equipments / System / Fire Extinguishers in Banking Industry.
  
  
8. a) Name and address of Bankers :
  - i)
  - ii)

b) Turnover of the Company/Firm in 2017-18, 2018-19 and 2019-20:  
 (Please attach a copy of audited Balance Sheet and Profit & Loss  
 Account for the years 2017-18, 2018-19 & 2019-20 as proof documents)

2017-18 :  
 2018-19 :  
 2019-20 :

9. Whether registered for Service Tax /GST purposes. If so, mention number and date.
  
10. Whether an assessee of Income Tax. If so, mention Permanent Account Number. Furnish copies of Income tax clearance certificate.
  
11. Whether Office at Hyderabad is registered under Shops and Establishment Act. Provide date of opening of Office in Hyderabad.
  
12. No of own staff employed in Twin Cities Office (Hyderabad/Secunderabad)
  - a) Technician and Engineer :
  - b) Office Staff :
  
13. Furnish the names of PSBs/ Private Banks/PSUs, where you have been empanelled for providing services of supply, installation and maintenance of security equipment / fire extinguishers in the last three years.

Name of Organisation with Address	Since when?

**Note:** Please attach copies of their orders. A separate sheet may be attached if the above space is inadequate.



14. Furnish the names of PSBs/ Private Banks/PSUs, where you are currently providing services of AMC and ARC for Security Equipment / Systems/ Fire Extinguishers:-

Name of Organisation with Address	Since when?	Average annual Payment received

**Note:** Please attach copies of their orders. A separate sheet may be attached if the above space is inadequate.

15. Product for which empanelment is sought (Please tick your choice)

Electronic Alarm System / CCTV System / Fire Alarm System / Fire Extinguishers

16. Is your firm a manufacturer / authorized dealer / system integrator for the above products (Please tick correct option)

Manufacturer / Authorized dealer / System Integrator

I / We have read the instructions appended to the Proforma and I / We understand that if any false information is detected at a later date, any contract made between ourselves and Union Bank of India 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 Union Bank of India, Regional Office Saifabad in selection of Vendors will be final and binding to me / us.

All the information furnished by me/us above here is correct to the best of my/our knowledge and belief.

I / We agree that I / We have no objection if enquiries are made about the work listed by me / us here in above and/or in the accompanying sheets.

Place.

Date.

SIGNATURE:

Name & Designation & seal of the Company

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

**Annexure - III**

**Reference Site Details**

(1) Name of the company	
Address of the company	
Name, designation of contact person with telephone No. and e-mail id	Name: Designation: Landline No.: Cell No.: E-mail id:
Details of Security Equipments Supplied or Maintained in last 3 years (Ref. No., date of order and quantity)	EAS CCTV FAS Fire Extinguishers

(2) Name of the company	
Address of the company	
Name, designation of contact person with telephone No. and e-mail id	Name: Designation: Landline No.: Cell No.: E-mail id:
Details of Security Equipments Supplied or Maintained in last 3 years (Ref. No., date of order and quantity)	EAS CCTV FAS Fire Extinguishers

(3) Name of the company	
Address of the company	
Name, designation of contact person with telephone No. and e-mail id	Name: Designation: Landline No.: Cell No.: E-mail id:
Details of Security Equipments Supplied or Maintained in last 3 years (Ref. No., date of order and quantity)	EAS CCTV FAS Fire Extinguishers

**AUTHORIZED SIGNATORY**

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

To

The Regional Head  
Regional Office - Saifabad,  
Union Bank of India  
No. 3-12-73, 3rd Floor, Harsha Towers  
Rock Town Colony, LB Nagar,  
Hyderabad - 500068

Dear Sir,

**DECLARATION FOR COMPLIANCE**

We hereby undertake and agree to abide by all the terms and conditions stipulated by the Bank in this RFP including all addendum, corrigendum etc. (Any deviation may result in disqualification of bids).

We confirm that we have not been disqualified by any PSB or PSU for Supply, Installation and Maintenance of Security Equipments/ Systems / Fire Extinguishers.

We confirm that our firm is not owned or controlled by any Director / Officer / Employee of Union Bank of India or their relatives having the same meaning as assigned under Section 6 of Companies Act 1956.

We declare and confirm that the below mentioned personnel are full time permanent employees deployed in our Office at Twin Cities (Hyderabad/Secunderabad) and in the Telangana State.

Sl	Name	Designation	Place of deployment	Mobile Number

**AUTHORIZED SIGNATORY**

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

**TECHNICAL SPECIFICATIONS OF PRODUCT**  
**FOR WHICH THE FIRM IS BIDDING**

**Technical Specifications - Electronic Alarm System**

<b><u>Ser</u></b>	<b><u>Description</u></b>	<b><u>Make / Model</u></b>	<b><u>Technical Specification</u></b>
1.	2/4 Zone Control panel (microprocessor based) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers		
2.	External GSM Based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers		
3.	Rechargeable Batteries for minimum 8 hrs power backup		
4.	Magnetic Sensor (Heavy Duty)		
5.	Magnetic Sensor (Light Duty)		
6.	Day Mode Panic Switch		
7.	Passive Infra Red (PIR) Sensors		
8.	Vibration (Motion) Sensors		
9.	LDRs		
10.	External hooter		
11.	Inbuilt hooter		
12.	Pressure Switch		
13.	Heat Detector		
14.	Cabling (1.5 sq.mm copper armored cable (ISI) IS: 1554 Wiring in ISI conduit pipes)		
15.	Any other parts / components		

**AUTHORIZED SIGNATORY**

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

**Technical Specifications - CCTV System**

<b>Sl</b>	<b>Description</b>	<b>Make / Model</b>	<b>Technical Specification</b>
1.	4 Channel HD DVR		
2.	8 Channel HD DVR		
3.	16 Channel HD DVR		
4.	32 Channel NVR		
5.	Surveillance HDD - 1 TB		
6.	Surveillance HDD - 2 TB		
7.	Surveillance HDD - 4 TB		
8.	Surveillance HDD - 6 TB		
9.	Surveillance HDD - 8 TB		
10.	IR Dome High Definition (FULL HD) Camera, Fixed focal		
11.	IR Dome High Definition (FULL HD) Camera, Vari focal		
12.	IR Bullet High Definition (FULL HD) Camera, Fixed focal		
13.	IR Bullet High Definition (FULL HD) Camera, Vari focal		
14.	02MP IP Based HD IR Dome Camera with Fixed Lens		
15.	02MP IP Based HD IR Bullet Camera with Vari Focal Lens		
16.	Hidden / Pin Hole Camera		
17.	SMPS Unit - 1 Camera output		
18.	SMPS Unit - 2 Camera output		
19.	SMPS Unit - 4 Camera output		
20.	POE + Switch 8 Channel		
21.	POE + Switch 16 Channel		
22.	POE + Switch 24 Channel		
23.	LED / LCD Monitor 19"		
24.	LED / LCD Monitor 21"		
25.	LED / LCD Monitor 26"		
26.	LED / LCD Monitor 43"		

27.	VGA Cable		
28.	HDMI Cable		
29.	6U Rack Wall Mount		
30.	2U Rack Wall Mount		
31.	CCTV RG 6 Co-Axial Cable laid in ISI marked PVC conduits		
32.	Data Cable CAT 6E Unarmoured		
33.	Wireless Mouse		
34.	2 Core Power Cable		
35.	Any other parts / components		

**AUTHORIZED SIGNATORY**



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

**Technical Specifications - Fire Alarm System**

<b>Sl</b>	<b>Description</b>	<b>Make / Model</b>	<b>Technical Specification</b>
1.	2/4 Zone Master control panel as per IS: 2169 (With Zone indicator) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers		
2.	External GSM Based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers		
3.	Rechargeable Batteries for minimum 8 hrs power backup		
4.	Flame detectors conforming to IS 11360		
5.	Ionization smoke detectors conforming to IS 11360		
6.	Optical smoke detectors conforming to IS 11360		
7.	Response Indicator (RI)		
8.	Heat detector conforming to IS 11360		
9.	Manual call points with break glass arrangement		
10.	External hooters		
11.	Inbuilt hooter		
12.	Cabling (1.5 sq.mm copper armored cable (ISI) IS: 1554 Wiring in ISI conduit pipes). (In Metres)		
13.	Any other parts / components		

**AUTHORIZED SIGNATORY**

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

**Technical Specifications - Fire Extinguishers**

<b><u>Sl</u></b>	<b><u>Description</u></b>	<b><u>Make / Model</u></b>	<b><u>Technical Specification</u></b>
1.	9 Litres Water (Stored Pressure) Type as per IS 15683:2006		
2.	3 Kgs ABC Multipurpose Type as per IS 15683:2006		
3.	2 Kgs CO2 Type as per IS 15683:2006		
4.	ABC -Fire Extinguisher ball with installation bracket		
5.	Enamel painting with 2 cotes premier		
6.	Washer for DCP / Water CO2		
7.	Floor stand for DCP / Water Co2 / Co2		
8.	Wall fixing bracket for DCP / Water Co2 / Co2		
9.	Discharge hose with nozzle for DCP		
10.	Safety Clip for DCP / Water CO2 / CO2		
11.	Inner container for DCP		
12.	Discharge hose with nozzle for Water CO2		
13.	Union cap assembly 2 ½ “ Dia made of GM for DCP		
14.	Union cap assembly 2” Dia made of GM for Water CO2 9 Ltrs		
15.	Discharge horn with adopter for CO2		
16.	1” Valve or ¾” valve for CO2.		
17.	Valve for Modular		
18.	Discharge valve for water Co2/DCP store pressure		
19.	Pressure gauge for water CO2/DCP store pressure		
20.	Any other parts / components		

**AUTHORIZED SIGNATORY**

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

**PRICE BID - ELECTRONIC ALARM SYSTEM**

Sl	Details	Quantity	Cost (in figures as well as words)
1	Package Cost of Electronic Alarm System for Branch inclusive of Transport, Labour, Installation & other Charges (Less GST)	4 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Panic Switches (05 Nos) + Magnetic Switch (Heavy Duty) (01 Nos ) + Magnetic Switch (Light Duty) (01 Nos) + PIR Sensors (03 Nos) + Vibration Sensors (03 Nos)+ LDRs (02 Nos) + External Hooter (02 Nos)+ Battery Backup for 8 Hrs + Required cabling and conduit.	
2	Package Cost of Electronic Alarm System for ATM inclusive of Transport, Labour, Installation & other Charges (Less GST)	2 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Panic Switches (01 Nos) + Magnetic Switch (Heavy Duty) (01 Nos) + Magnetic Switch (Light Duty) (01 Nos) + Vibration Sensors (01 Nos) + External Hooter (01 Nos ) + Battery Backup for 8 Hrs + Required cabling and conduit.	
3	Comprehensive Annual Maintenance Contract Charges for Branch per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	
4	Comprehensive Annual Maintenance Contract Charges for ATM per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	

**COST OF INDIVIDUAL COMPONENTS / SPARES**

Sl	Item Description	Quantity	Cost in figures (Inclusive of Transport, Labour, Installation & other Charges) (Less GST)
1	4 Zone Control panel (microprocessor based) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	
2	2 Zone Control panel (microprocessor based) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	

3	External GSM Based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	
4	Rechargeable Batteries for minimum 8 hrs power backup	01 Nos	
5	Magnetic Sensor (Heavy Duty)		
6	Magnetic Sensor (Light Duty)	01 Nos	
7	Day Mode Panic Switch	01 Nos	
8	Passive Infra Red (PIR) Sensors	01 Nos	
9	Vibration (Motion) Sensors	01 Nos	
10	LDRs	01 Nos	
11	External hooter	01 Nos	
12	Inbuilt hooter	01 Nos	
13	Pressure Switch	01 Nos	
14	Heat Detector	01 Nos	
15	Cabling (1.5 sq.mm copper armored cable (ISI) IS: 1554 Wiring in ISI conduit pipes)	Per meter	
16	Any other parts / components		
17	Labour Charges for shifting to another premises	Per shifting	
18	Buy Back value of EAS system in “As Is” condition	System / Control Panel	<b>FIXED AMOUNT RS 500/-</b>

Package Cost to the Bank (including Transport/Labour/Installation and other Charges) (Less GST) for **BRANCH**, will be used to arrive at L1/L2/L3 Vendors.

**After finalization of L1/L2/L3 vendors**, the lowest Package Cost for other packages of EAS, lowest rates for individual components, as well as lowest cost for CAMCs, quoted by L1/L2/L3 bidders, would be frozen as approved rates (L1 Rates) for CAMC and ARC.

The rates shall be fixed for the entire period of empanelment and there shall be no upward revision of rates.

\* Taxes as applicable extra

**AUTHORIZED SIGNATORY**

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

**PRICE BID - CCTV SYSTEM**

Sl	Details	Quantity	Cost (in figures as well as words)
1	Package Cost of 32 Ch NVR Based CCTV System inclusive of Transport, Labour, Installation & other Charges (Less GST)	32 Channel NVR (01 Nos) + HDD of 32 TB + IP Based HD IR Dome Camera Fixed Focal (20 Nos) + IP Based HD IR Bullet Camera Vari Focal (10 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + POE Switch 8 Channel X 4 Nos + Display Monitor 43 Inch (01 Nos) + 6U Rack + Required cabling and conduit.	
2	Package Cost of 16 Ch DVR Based CCTV System inclusive of Transport, Labour, Installation & other Charges (Less GST)	16 Channel Stand Alone DVR (01 Nos) + HDD of 32 TB + IR Dome Camera Fixed Focal (10 Nos) + IR Bullet Camera Vary Focal (04 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + PSUs for the Cameras (08 Nos) (@ only 02 cameras per PSU) + Display Monitor 26 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.	
3	Package Cost of 8 Ch DVR Based CCTV System inclusive of Transport, Labour, Installation & other Charges (Less GST)	8 Channel Stand Alone DVR (01 Nos) + HDD of 16 TB + IR Dome Camera Fixed Focal (04 Nos) + IR Bullet Camera Vari Focal (02 Nos) + Pin Hole Camera (02 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (02 Nos) + PSUs for the Cameras (04 Nos) (@ only 02 cameras per PSU) + Display Monitor 21 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.	
4	Package Cost of 4 Ch DVR Based CCTV System inclusive of Transport, Labour, Installation & other Charges (Less GST)	4 Channel Stand Alone DVR (01 Nos) + HDD of 8 TB + IR Dome Camera Fixed Focal (02 Nos) + IR Bullet Camera Vari Focal (01 Nos) + Pin Hole Camera (01 Nos) + Independent Stand Alone Camera with inbuilt memory capable for video back up for 7 days (01 Nos) + PSUs for the Cameras (02 Nos) (@ only 02 cameras per PSU) + Display Monitor 19 Inch (01 Nos) + DVR Cabinet + Required cabling and conduit.	

5	Comprehensive Annual Maintenance Contract Charges for 32 Ch NVR Based CCTV System per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	
6	Comprehensive Annual Maintenance Contract Charges for 16 Ch DVR Based CCTV System per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	
7	Comprehensive Annual Maintenance Contract Charges for 8 Ch DVR Based CCTV System per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	
8	Comprehensive Annual Maintenance Contract Charges for 4 Ch DVR Based CCTV System per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	

**COST OF INDIVIDUAL COMPONENTS / SPARES**

Sl	Item Description	Quantity	Cost in figures (Inclusive of Transport, Labour, Installation & other Charges) (Less GST)
1.	4 Channel HD DVR	01 Nos	
2.	8 Channel HD DVR	01 Nos	
3.	16 Channel HD DVR	01 Nos	
4.	32 Channel NVR	01 Nos	
5.	Surveillance HDD - 1 TB	01 Nos	
6.	Surveillance HDD - 2 TB	01 Nos	
7.	Surveillance HDD - 4 TB	01 Nos	
8.	Surveillance HDD - 6 TB	01 Nos	
9.	Surveillance HDD - 8 TB	01 Nos	
10.	HD IR Dome Camera, Fixed focal	01 Nos	
11.	HD IR Dome Camera, Vari focal	01 Nos	



12.	HD IR Bullet Camera, Fixed focal	01 Nos	
13.	HD IR Bullet Camera, Vari focal	01 Nos	
14.	02MP IP Based HD IR Dome Camera with Fixed Lens	01 Nos	
15.	02MP IP Based HD IR Bullet Camera with Vari Focal Lens	01 Nos	
16.	Hidden / Pin Hole Camera	01 Nos	
17.	SMPS Unit - 1 Camera output	01 Nos	
18.	SMPS Unit - 2 Camera output	01 Nos	
19.	SMPS Unit - 4 Camera output	01 Nos	
20.	POE + Switch 8 Channel	01 Nos	
21.	POE + Switch 16 Channel	01 Nos	
22.	POE + Switch 24 Channel	01 Nos	
23.	LED / LCD Monitor 19”	01 Nos	
24.	LED / LCD Monitor 21”	01 Nos	
25.	LED / LCD Monitor 26”	01 Nos	
26.	LED / LCD Monitor 43”	01 Nos	
27.	6U Rack Wall Mount	01 Nos	
28.	2U Rack Wall Mount	01 Nos	
29.	Wired Mouse	01 Nos	
30.	Wireless Mouse	01 Nos	
31.	CCTV RG 6 Co-Axial Cable laid in ISI marked PVC conduits	Per Meter	
32.	Data Cable CAT 6E Unarmoured	Per Meter	
33.	VGA Cable	Per Meter	
34.	HDMI Cable	Per Meter	
35.	2 Core Power Cable	Per Meter	
36.	Any other parts / components		
37.	Labour Charges for shifting to another premises	Per shifting	
38.	Buy Back value of 4 Ch DVR based CCTV system in “As Is” condition	System / DVR	<b>FIXED AMOUNT RS 500/-</b>
39.	Buy Back value of 8 Ch DVR based CCTV system in “As Is” condition	System / DVR	<b>FIXED AMOUNT RS 2000/-</b>
40.	Buy Back value of 16 Ch DVR based CCTV system in “As Is” condition	System / DVR	<b>FIXED AMOUNT RS 4000/-</b>
41.	Buy Back value of 32 Ch DVR based CCTV system in “As Is” condition	System / DVR	<b>FIXED AMOUNT RS 5000/-</b>

Package Cost to the Bank (including Transport/Labour/Installation and other Charges) (Less GST) for Stand Alone 16 Channel DVR Based CCTV System will be used to arrive at L1/L2/L3 Vendors.

After finalization of L1/L2/L3 vendors, the lowest Package Cost for other packages of CCTV System, lowest rates for individual components, as well as lowest cost for CAMCs, quoted by L1/L2/L3 bidders, would be frozen as approved rates (L1 Rates) for CAMC and ARC.

The rates shall be fixed for the entire period of empanelment and there shall be no upward revision of rates.

\* Taxes as applicable extra

**AUTHORIZED SIGNATORY**

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

**PRICE BID - FIRE ALARM SYSTEM**

Sl	Details	Quantity	Cost (in figures as well as words)
1	Package Cost of Fire Alarm System for Branch inclusive of Transport, Labour, Installation & other Charges (Less GST)	4 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Smoke Detectors (08 Nos) + Heat Detectors (02 Nos) + Flame Detectors (02 Nos) + MCPs (02 Nos) + RI (02 Nos) + Battery Backup for 8 Hrs + Required cabling and conduit.	
2	Package Cost of Fire Alarm System for ATM inclusive of Transport, Labour, Installation & other Charges (Less GST)	2 Zone Control Panel (01 Nos) with inbuilt PSTN Based Auto Dialer + Smoke Detectors (02 Nos) + Heat Detectors (01 Nos) + Flame Detectors (01 Nos) + Battery Backup for 8 Hrs + Required cabling and conduit.	
3	Comprehensive Annual Maintenance Contract Charges for Branch per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	
4	Comprehensive Annual Maintenance Contract Charges for ATM per Year	It will be paid in 04 equal quarterly installments after completion of PM Visit for each quarter.	

**COST OF INDIVIDUAL COMPONENTS / SPARES**

Sl	Item Description	Quantity	Cost in figures (Inclusive of Transport, Labour, Installation & other Charges) (Less GST)
1	4 Zone Master control panel as per IS: 2169 (With Zone indicator) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	
2	2 Zone Master control panel as per IS: 2169 (With Zone indicator) with inbuilt PSTN based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	
3	External GSM Based Auto Dialer capable of escalating alarm call to 10 pre-configured numbers	01 Nos	
4	Rechargeable Batteries for minimum 8 hrs power backup	01 Nos	

5	Flame detectors conforming to IS 11360	01 Nos	
6	Ionization smoke detectors conforming to IS 11360	01 Nos	
7	Optical smoke detectors conforming to IS 11360	01 Nos	
8	Response Indicator (RI)	01 Nos	
9	Heat detector conforming to IS 11360	01 Nos	
10	Manual call points with break glass arrangement	01 Nos	
11	External hooters	01 Nos	
12	Inbuilt hooter	01 Nos	
13	Cabling (1.5 sq.mm copper armored cable (ISI) IS: 1554 Wiring in ISI conduit pipes). (In Metres)	Per Meter	
14	Any other parts / components		
15	Labour Charges for shifting to another premises	Per shifting	
16	Buy Back value of FAS system in "As Is" condition	System / Control Panel	<b>FIXED AMOUNT RS 500/-</b>

Package Cost to the Bank (including Transport/Labour/Installation and other Charges) (Less GST) for **BRANCH**, will be used to arrive at L1/L2/L3 Vendors.

**After finalization of L1/L2/L3 vendors**, the lowest Package Cost for other packages of FAS, lowest rates for individual components, as well as lowest cost for CAMCs, quoted by L1/L2/L3 bidders, would be frozen as approved rates (L1 Rates) for CAMC and ARC.

The rates shall be fixed for the entire period of empanelment and there shall be no upward revision of rates.

\* Taxes as applicable extra

**AUTHORIZED SIGNATORY**

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

**PRICE BID - FIRE EXTINGUISHERS**

Sl	Details	Quantity	Cost (in figures as well as words)
1	Package Cost of Fire Extinguishers for Branch inclusive of Transport, Labour, Installation & other Charges (Less GST)	9 Litres Water (Stored Pressure) Type Extinguishers (01 Nos) + 3 Kgs ABC Mutipurpose Type Extinguishers (02 Nos) + 2 Kgs CO2 Extinguishers (03 Nos) + Required wall mounted brackets / floor stands.	
2	Servicing Charge	Per Extinguisher	
3	HPT Charges	Per Extinguisher	
4	<b>Refilling Charges</b>		
a	9 Litres Water Extinguisher	Per Extinguisher	
b	2 Kg CO2 Extinguisher	Per Extinguisher	
c	4.5 Kg CO2 Extinguisher	Per Extinguisher	
d	6 Kg CO2 Extinguisher	Per Extinguisher	
e	3 Kg ABC Extinguisher	Per Extinguisher	
f	5 Kg DCP Extinguisher	Per Extinguisher	

**COST OF INDIVIDUAL COMPONENTS / SPARES**

Sl	Item Description	Quantity	Cost (Inclusive of Transport, Labour, Installation & other Charges) (Less GST)
1	Supply of 09 Litres Water Type Extinguisher	01 Nos	
2	Supply of 3 Kg Multipurpose ABC Type Extinguisher	01 Nos	
3	Supply of 02 Kg CO2 Type Extinguisher	01 Nos	
4	Supply of 4.5Kgs CO2 Type Extinguisher	01 Nos	
5	Supply of 6 Kgs CO2 Type Extinguisher	01 Nos	

6	ABC -Fire Extinguisher ball with installation bracket	01 Nos	
7	Enamel painting including 2 coats primer	01 Nos	
8	Washer for DCP / Water CO2	01 Nos	
9	Floor stand for DCP / Water Co2 /Co2	01 Nos	
10	Wall fixing bracket for DCP / Water Co2 /Co2	01 Nos	
11	Discharge hose with nozzle for DCP	01 Nos	
12	Safety Clip for DCP /Water CO2 / CO2	01 Nos	
13	Inner container for DCP	01 Nos	
14	Discharge hose with nozzle for Water CO2	01 Nos	
15	Union cap assembly 2 ½ “ Dia made of GM for DCP	01 Nos	
16	Union cap assembly 2” Dia made of GM for Water CO2 9 Ltrs	01 Nos	
17	Discharge horn with adopter for CO2	01 Nos	
18	1” Valve or ¾” valve for CO2.	01 Nos	
19	Valve for Modular	01 Nos	
20	Discharge valve for water Co2/DCP store pressure	01 Nos	
21	Pressure gauge for water CO2/DCP store pressure	01 Nos	
22	Any other parts / components		
23	Labour Charges for shifting to another premises	Per shifting	
24	Buy Back value for any kind of extinguisher which has completed its service life	01 Nos	<b>FIXED AMOUNT RS 100/-</b>

Package Cost to the Bank (including Trasport/Labour/Installation and other Charges) (Less GST) for **BRANCH**, will be used to arrive at L1/L2/L3 Vendors.

After finalization of L1/L2/L3 vendor, the lowest rates for each type of fire extinguisher, individual components of Fire Extinguishers, Servicing, HPT and Refilling Charges quoted by L1/L2/L3 would be frozen as approved rates (L1 Rates) for Supply, Installation, Servicing, HPT and Refilling of Fire Extinguishers.

The rates shall be fixed for the ENTIRE period of empanelment and there shall be no upward revision of rates.

\* Taxes as applicable extra

**AUTHORIZED SIGNATORY**

**FORMAT OF PERFORMANCE BANK GUARANTEE**  
**(Covering Delivery obligations)**

**NOTE:**

1. This guarantee should be furnished by a Nationalized Bank / Scheduled Bank, other than Union Bank of India, as per the following format.
2. This bank guarantee should be furnished on stamp paper value as per Stamp Act. (not less than Rs.500/-).
3. This Performance Bank Guarantee should be furnished within 14 days of the notification of the award of the Contract.

To

Union Bank of India  
Regional Office - Saifabad,  
No. 3-12-73, 3rd Floor, Harsha Towers  
Rock Town Colony, LB Nagar,  
Hyderabad - 500068

Dear Sir,

In consideration of Union Bank of India, \_\_\_\_\_  
placing an order for implementation of & on \_\_\_\_\_ having registered  
office at \_\_\_\_\_ (hereinafter called the firm) as per the work  
order entered into by the firm vide work order no. \_\_\_\_\_ dated  
\_\_\_\_\_ (hereinafter called the said contract), We  
\_\_\_\_\_ (Name of the Guarantor Bank), a 'schedule bank', issuing this  
guarantee through its branch at \_\_\_\_\_ presently located at  
\_\_\_\_\_ (hereinafter called the bank), do hereby irrevocably and  
unconditionally guarantee the due performance of the firm as to the Supply, Installation,  
Maintenance of \_\_\_\_\_ at \_\_\_\_\_.

If the said firm fails to implement or maintain the system or any part thereof as per the  
contract and on or before the schedule dates mentioned therein, we  
\_\_\_\_\_ (Name of the Guarantor Bank), do hereby  
unconditionally and irrevocably agree to pay the amounts due and payable under this  
guarantee without any demur and merely on demand in writing from you during the  
currency stating that the amount claimed is due by way of failure on the part of the vendor  
or loss or damage caused to or suffered / or would be caused to or suffered by you by  
reason of any breach by the said vendor of any of the terms and conditions of the said  
contract, in part or in full. Any such demand made on us shall be conclusive as regards the  
amount due and payable under this guarantee.

We \_\_\_\_\_ (Name of the Guarantor Bank), further  
agree that this guarantee shall continue to be valid unless you certify that the vendor has  
fully performed all the terms and conditions of the said contract and accordingly discharge  
this guarantee, or until \_\_\_\_\_, whichever is earlier. Unless a claim or



demand is made on us in writing under this guarantee on or before \_\_\_\_\_, we shall be discharged from all our obligations under this guarantee. If you extend the schedule dates of performance under the said contract, as per the terms of the said contract, the vendor shall get the validity period of this guarantee extended suitably and we agree to extend the guarantee accordingly at the request of the firm and at our discretion, provided such request is served on the bank on or before \_\_\_\_\_.

Failure on part of the vendor in this respect shall be treated as a breach committed by the firm and accordingly the amount under this guarantee shall at once become payable on the date of receipt of demand made by you for payment during the validity of this guarantee or extension of the validity period.

You will have fullest liberty without affecting this guarantee to postpone for any time or from time to time any of your rights or powers against the vendor and either to enforce or forebear to enforce any or all of the terms and conditions of the said contract. We shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the firm or any other forbearance act or omission on your part or any indulgence by you to the firm or by any variation or modification of the said contract or any other act, matter or thing whatsoever which under the law relating to sureties would but for the provisions hereof have the effect of so releasing us from our liability hereunder.

In order to give full effect to the guarantee herein contained you shall be entitled to act as if we are your principal debtors in respect of all your claims against the firm hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety ship and other rights if any which are in any way inconsistent with the above or any other provision of this guarantee.

The words the firm, the beneficiary of this guarantees i.e. Yourself, and ourselves i.e., \_\_\_\_\_(Name of the Guarantor Bank), unless repugnant to the context or otherwise shall include their assigns, successors, agents, legal representatives. This guarantee shall not be effected by any change in the constitution of any of these parties and will ensure for and be available to and enforceable by any absorbing or amalgamating or reconstituted company or concern, in the event of your undergoing any such absorption, amalgamation or reconstitution.

This guarantee shall not be revocable during its currency except with your prior consent in writing. This guarantee is non-assignable and non-transferrable.

Notwithstanding anything contained herein above:

- a) Our liability under this bank guarantee shall not exceed Rs. /- \_\_\_\_\_ (Rupees \_\_\_\_\_ Only).
- b) This bank guarantee shall be valid up to \_\_\_\_\_.
- c) We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only if you serve upon us a written claim or demand (and which should be received by us), on or before \_\_\_\_\_ before 12:00 hours (Indian standard time) where after it ceases to be in effect in all respects whether or not the original bank guarantee is returned to us.

This guarantee deed must be returned to us upon expiration of the period of guarantee.

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
(In Block Letter)  
Designation \_\_\_\_\_  
(Staff Code No) \_\_\_\_\_

Official Address:  
(Bank's Common Seal)  
Attorney as per power of Attorney No  
Date:

WITNESS

- 1) \_\_\_\_\_ (Signature with Name, Designation & Address)
- 2) \_\_\_\_\_ (Signature with Name, Designation & Address)

**FEED BACK PERFORMA - PERFORMANCE OF VENDOR/ FIRM**

1. Name and Address of the client.
2. Name of the Vendor/Firm.
3. Details of work executed by the Vendor/Firm.

Sl.	Description	Comments
a)	Brief description of scope of work and geographical area of deployment	
b)	Agreement/ Work Order no. and date	
c)	Period of Contract/ Actual period of service rendered	
d)	Avg. no. of Early Alarm System/ CCTV/ Fire Alarm System / Fire Extinguishers installed/ serviced during the contract period.	
e)	Proficiency of manpower deployed (age, profile, literacy etc)	
f)	Avg. response time for installation of new equipments (in no. of days.)	
g)	Quality of work	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
h)	Comments on the capabilities of the Vendor/ Firm	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
i)	Technical proficiency of the Vendor/Firm on equipments	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
j)	Financial Soundness	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
k)	Quality of equipments provided	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
l)	General behavior	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
m)	Overall rating of the Vendor/Firm	Outstanding/ Very Good/ Good/ Satisfactory/ Poor

Signature of the Reporting Officer with Office Seal

Name of the Officer:

Designation:

Mobile No:

Email Id: