



STATE BANK OF INDIA, PREMISES & ESTATE DEPARTMENT,  
LOCAL HEAD OFFICE, KOLKATA

NIT REF. NO. SBI/KOL/2025-26/03

DATED 06/01/2026

**STATE BANK OF INDIA, KOLKATA CIRCLE**

**INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR EMPANELMENT OF VENDORS/FIRMS FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF AUTOMATIC FIRE DETECTION & ALARM SYSTEM AS PER LATEST BIS 2189:2008 FOR VARIOUS BRANCHES/OFFICES OF STATE BANK OF INDIA LOCATED IN STATE OF WEST BENGAL, SIKKIM & ANDAMAN AND NICOBAR ISLAND.**

**TO BE SUBMITTED**

**ON OR BEFORE 2PM ON 31/01/2026**

**ADDRESS TO:**



**State Bank of India, Local Head Office,  
Premises & Estate Department  
9TH FLOOR, SAMRIDDHI BHAVAN, BLOCK-B,  
1 STRAND ROAD, KOLKATA-700001**

**Tel Ph: - 9674703101**

**E mail – [fo.lhokol@sbi.co.in](mailto:fo.lhokol@sbi.co.in)**



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## **ATTENTION BIDDERS**

*Bidders, who are authorized dealers, of any one or more, of the following offered brands or equivalent brands of products and fulfilling the given technical specifications as mentioned under respective category of the product, may only apply.*

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**A. GENERAL INFORMATION:**

State Bank of India (SBI), Premises & Estate Department, Local Head Office, Kolkata .hereinafter referred to as “Bank”, intends to prepare a panel of reputed, reliable and experienced contractors / firms / companies individually on their own (no consortium are permitted) for the Supply, Installation, Testing, Commissioning & Maintenance (including maintenance of existing system) of Automatic Fire Detection & Alarm System (AFD&AS) (hereinafter referred to “AFD&AS”) as per latest BIS 2189:2008 in the branches and offices located in the State of **WEST BENGAL, SIKKIM & ANDAMAN AND NICOBAR ISLAND.**

We are looking for the vendors/firms/firms who have a high degree of expertise in supply, installation, commissioning & maintenance of AFD&AS having well established themselves in this field and who possess good financial strength. Only those vendors/firms, who satisfy the eligibility criteria on each and every parameter as mentioned hereunder, need to submit an Expression of Interest (EOI).

**Those vendors/firms/LLP/Companies who qualify in pre-qualification and technical evaluation will be eligible for empanelment in the Bank for initial period of 03 - years from the date of signing of agreement. The validity of empanelment may be renewed and extended at the discretion of the Bank on the existing terms and conditions for another two years, provided that the vendor performance is found to be satisfactory during the Contract period.** During this period, Bank shall reserve the right to cancel the panel of vendors/firms or go in for a fresh empanelment or extend the validity period of empanelment at its sole discretion of the Bank and it shall be binding upon all the vendors/firms who are empanelled through this exercise. However, it is an ongoing process and Vendors/firms can apply any time throughout the year. The applications shall be processed during the meeting of the Committee within six months. **The rates shall be valid for 24 months from the date of award of work order and may be reviewed as per decision of bank.**

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**B. IMPORTANT SCHEDULE OF THE EMPANELMENT PROCESS:**

1.	Scope of Work	"Expression of Interest for Supply, Installation, Testing, Commissioning & Maintenance (including maintenance of existing system) of Automatic Fire Detection & Alarm System
2.	Availability of EOI / tender document.	Tender may be downloaded from the bank's website ( <a href="https://sbi.bank.in">https://sbi.bank.in</a> ) under link
3.	Time and last date of Submission of Tender	on or before 27/01/2025 up to 1400 hours
4.	Place & Address for submission of tender / contact person / telephone no.	In the tender box placed at the office of Assistant General Manager (P&E), State Bank of India, Local Head Office, SAMRIDDHI BHAVAN, B-BLOCK 9TH FLOOR KOLKATA-700001
5.	Pre - bid Meeting	State Bank of India, Local Head Office, Local Head Office, SAMRIDDHI BHAVAN, B-BLOCK 9TH FLOOR KOLKATA-700001r; from 1500 hrs to 1600 hrs on 16/01/2026.
6.	Last date for requesting clarification	Up to 1600 hours on 15/01/2026 All communications regarding points / queries requiring clarifications shall be <b>e-mailed at</b> <a href="mailto:agmpre.lhokol@sbi.co.in">agmpre.lhokol@sbi.co.in</a> or <a href="mailto:fo.lhokol@sbi.co.in">fo.lhokol@sbi.co.in</a>
7.	Contact details of Concerned Officials for any clarification	Shri Niranjana Kumar Circle Fire Officer (LHO)– 9674703101 Shri Shivam Srivastava Fire Officer (LHO) – 8141269292 Shri Deepraj Sinha Fire Officer (AO Bidhannagar) – 9674742101 / 7351377927 Shri Naveen Kumar Fire Officer (AO Siliguri) – 9304158134 Shri Saurabh Kumar Fire Officer (AO Durgapur) – 9308808184 Shri Anubhava Verma Fire Officer (AO S24P) – 8789752805  E mail - <a href="mailto:fo.lhokol@sbi.co.in">fo.lhokol@sbi.co.in</a>
8.	Date, Time and Place of opening of tenders	On 31/01/2026 at 1500 hours, at the office of Assistant General Manager (P&E), State Bank of India, Local Head Office, Local Head Office, SAMRIDDHI BHAVAN, B-BLOCK 9TH FLOOR KOLKATA-700001
9.	Date of opening of Price bids	The technically qualified bidders will be communicated by the email for submission date of price bid documents and date of opening of the bid shall also be intimated vide email.

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10.	Validity of empanelment list	The panel shall be valid for an initial period of <b>(02) two Years</b> from the date of signing of the contract agreement to the short-listed firms which may be extended or curtailed at the sole discretion of the Bank. Only empanelled vendors will be allowed to participate in the renewal.
11.	Earnest Money Deposit (EMD)	Rs 1,00,000/- (Rupees one lakhs only) by way of demand draft favoring SBI, payable at Kolkata as a refundable 'Participation Fees' should be enclosed in the cover containing Technical Bid. Those offers in which the technical bid does not contain EMD will be summarily rejected.
12.	Security Deposit	All the empanelled vendors/firms shall deposit amount 2% of Contract Value, in the form of Demand Draft/Banker's Cheque, in favor of State Bank of India, payable at Kolkata as security deposit. Bank will inform to empanelled vendors/firms for the same.
13.	Additional Security Deposit (ASD) / Additional Performance Guarantee (APG)	ASD/APG shall be applicable if the bid price is below 10% of the estimated cost put to tender. The amount of such ASD/APG shall be the difference between 90% of estimated cost put to tender and the quoted price. ASD in the format of DD/ Banker's Cheque/Bank Guarantee shall be submitted within 15 days of intimation of award of work /work order, without which the contractor will not be allowed to start the work and failure of submission of ASD will result in forfeiture of EMD and cancellation of tender.
14.	Terms of payment of Bills	On completion of the work payment will be made. <b>No advance payment will be made by the Bank.</b>

**Notes:**

- If, on 31/01/2026 is declared a holiday, then tenders would be accepted by 1400 hrs. on the next working day and accordingly would be opened at 1500 hrs on the same day. You may send your representatives to attend the tender opening process at the given time and date.*
- Sealed Bid received later than the given time/date will be summarily rejected. Canvassing in any form will lead to disqualification.*
- The Bank reserves the right to reject any or all the offers without assigning any reasons thereof.*
- Vendors who are registered under MSME and NSIC will be exempted from EMD fees (Documents to be submitted).*
- EMD of Rs. 100000 (Rs. One lakh Only) by way of demand draft favoring SBI, payable at Kolkata as a refundable 'Participation Fees' should be enclosed in the cover containing Technical Bid.*



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### **DISCLAIMER**

The information contained in this document or information provided subsequently to Vendor(s) or applicants whether verbally or in documentary form by or on behalf of State Bank of India (Bank), is provided to the Vendor(s) on the terms and conditions set out in this document and all other terms and conditions subject to which such information is provided.

The tender would bind neither the Bank in any contract nor in an offer of an assignment/contract. The Bank reserves the right to accept any bid/proposal or reject any or all the bids/proposals received in response to the tender and to cancel the entire process at any time prior to award of the assignment/contract, without thereby incurring any liability to the affected respondent/s. The Bank shall not be bound to offer any reasons for such acceptance/rejection nor shall entertain any correspondence with the rejected respondents in this matter. The bank reserves the right to reject any or all tenders without assigning any reason, even though the firms primarily satisfy the eligibility criteria. The Bank reserves the right to cancel the tendering process without giving any reasons at any stage. The Bank reserves the right to cancel the empanelment process altogether at any time for any reason whatsoever. It is purely on the discretion of the Bank.

### **C. DEFINITION OF TERMS & TERMINOLOGIES**

1. **Bank/Purchaser** shall mean the client on whose behalf this tender is issued and his authorized representative.
2. **Fire Engineers** shall mean Fire Engineer / Fire Officer appointed by Bank for the project.
3. **Bidder** shall mean party who quotes against this enquiry.
4. **Contractor** shall mean the successful 'BIDDER' whose bid has been accepted by the Bank and on whom Purchase/Work Order will be placed.
5. **Project** shall mean the project specified in tender.
6. **Site** shall mean the actual place of work as detailed in specification / tender
7. **Specifications** shall mean collectively all the terms and stipulations contained in those portions of contract as general and special conditions, amendments, deletions, revisions as made in agreement or written agreements made pertaining to method of work.
8. **Month** shall mean Calendar month.
9. **Plant/Equipment** and **Works** shall mean respectively the goods to be supplied and services to be provided by the contractor.
10. **Contract/Work Order** shall mean the order specifying works and associated specifications to be executed by "Bank and Contractor".



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11. **'Contract Period'** shall mean the period during which "Bank" and "Contractor" shall execute the entire contract as agreed.
12. **'Guarantee Period' / "Defect Liability Period"** shall mean period during which the plant / equipment and installations shall give same and trouble-free performance as guaranteed by contractor.
13. **'Fire Engineer's Instructions'** shall mean instruction oral or written, drawings, direction, explanations issued by Consultant / Fire Engineer / Architects on be-half of the Bank from time to time during period of contract. (All 'oral' instructions shall be authenticated by written instructions immediately.)
14. **'Performance Tests'** shall mean all tests to be carried out by contractor as per specifications prior to installation being taken over by Bank under guarantee.
15. **'Commissioning'** shall mean integrated activity of carrying out performance tests, initial and trial operations of system.
16. **'Drawings'** shall mean all drawings furnished by Fire Engineer / Bank for basis of proposal or for carrying out works, from time to time; all drawing submitted by vendor provided such drawings are acceptable to Fire Engineer/Bank.
17. **'UR'** means quote unit rate.
18. **Acknowledge** - To confirm that a message or signal has been received, such as by the pressing of a button or the selection of a software command.
19. **Alert Tone** - An attention getting signal to alert occupants of the pending transmission of a voice message.
20. **Ceiling** - The upper surface of a space, regardless of height. Areas with a suspended ceiling have two ceilings, one visible from the floor and one above the suspended ceiling.
21. **Ceiling Height** - The height from the continuous floor of a room to the continuous ceiling of a room or space.
22. **Circuit** - Assembly of fire alarm components supplied from the same control equipment and protected against over current by the same protective device(s) or current limitation arrangements.
23. **Circulation Area** - Area (including a stairway) used mainly as a means of access between a room and an exit from the building or compartment.
24. **Combination/Multifunction Detector** – A device that either responds to more than one of the fire phenomena or employs more than one operating principle to sense one of these phenomena. Typical examples are a combination of a heat detector with a smoke detector or a combination of rate-of-rise and fixed-temperature heat detector.
25. **Commissioning** - Process by which it is determined that the installed system meets the defined requirements.
26. **Detector** - A device suitable for connection to a circuit that has a sensor that responds to a physical stimulus such as heat or smoke or flame.



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27. **Display** - The visual representation of output data, other than printed copy.
28. **Electrical Conductivity Heat Detector** – A line-type or spot-type sensing element in which resistance varies as a function of temperature.
29. **Evacuation Signal**- Distinctive signal intended to be recognized by the occupants as requiring evacuation of the building.
30. **Exit Plan** - A plan for the emergency evacuation of the premises.
31. **False Alarm** - Alarm of fire that is, false, because the fire reported does not and did not exist. This false alarm may arise by malicious, mistaken or accidental intent.
32. **Fault Signal** - A distinctive audible and visual signal indicating occurrence of a fault within the system (for example, breaks in electric circuit, short circuit or fault in power supply).
33. **Fire Alarm Control and Indicating Equipment** - Equipment through which fire detectors may be supplied with power and which:
- a) is used to accept a detection signal and actuate a fire alarm signal.
  - b) can pass on the fire detection signal, through the fire alarm routing equipment, to the fire fighting organization or to automatic extinguishers.
  - c) is used to automatically monitor the correct functioning of the system; and
  - d) is used to indicate or display the location of fire / alarm activation device.
34. **Fire Alarm Signal** - A signal initiated by a fire alarm-initiating device, such as a manual fire alarm box, automatic fire detector, water flow switch, or other device in which activation is indicative of the presence of a fire or fire signature.
35. **Fire Alarm System** - A combination of components for giving an audible and visible / or other perceptible alarm of fire. The system may also initiate other ancillary action.
36. **Fixed Temperature Detector** - A device that responds when its operating element becomes heated to a predetermined level.
37. **Floor** - Area contained on each storey of the building.
38. **Heat Detector** - A fire detector that detects either abnormally high temperature or rate of temperature rise, or both.
39. **Ionization Smoke Detection** - The principle of using a small amount of radioactive material to ionize the air between two differentially charged electrodes to sense the presence of smoke particles. Smoke particles entering the ionization volume decrease the conductance of the air by reducing ion mobility. The reduced conductance signal is processed and used to convey an alarm condition when it meets preset criteria.
40. **Maintenance** - Repair service, including periodic inspections and tests, required to always keep the fire alarm system and its component parts in an operative condition, and the replacement of the system or its components when they become undependable or inoperable for any reason.
41. **Manual Call Point** - A manually operated device used to initiate an alarm signal it can be manual alarm system or part of automatic alarm system.





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- 42. **Mimic Panel** - A panel in which the floor/area plans of the premises are projected to reduced scale to enable easy identification of the sector/zone.
- 43. **Multi-Sensor Fire Detector** - Fire detector that monitors more than one physical and/or chemical phenomenon associated with fire. Typical examples are a combination of a heat and smoke detector or combination of heat and gas detectors.
- 44. **Photoelectric Light Obscuration Smoke Detection** - The principle of using a light source and a photosensitive sensor onto which the principal portion of the source emissions is focused. When smoke particles enter the **light** path, some of the light is scattered and some is absorbed, thereby reducing the light reaching the receiving sensor. The light reduction signal is processed and used to convey an alarm condition when it meets preset criteria.
- 45. **Photoelectric Light-Scattering Smoke Detection** - The principle of using a light source and a photosensitive sensor arranged so that the rays from the light source do not normally fall onto the photosensitive sensor. When smoke particles enter the light path, some of the light is scattered by reflection and refraction onto the sensor. The light signal is processed and used to convey an alarm condition when it meets preset criteria.
- 46. **Smooth Ceiling** - A ceiling surface uninterrupted by continuous projections, such as solid joists, beams, or ducts, extending more than 100 mm below the ceiling surface.
- 47. **Standby Supply** - Power supply, commonly from a rechargeable battery, which is automatically connected to the fire alarm system when the normal power supply fails.
- 48. **Trouble Signal** - A signal initiated by the fire alarm system or device indicative of a fault in a monitored circuit or component.
- 49. **Zone** - Area or space that has a group of automatic and/or non-automatic fire detection devices for which there is a separate common display in the control and indicating equipment.

**D. INSTRUCTIONS TO THE APPLICANTS FOR EMPANELMENT**

- 1. Intending applicants are required to submit their applications with full biodata giving details about their organization, experience, technical personnel in their organization, competence and adequate evidence of their financial standing etc. in the enclosed form which will be kept confidential.
- 2. While deciding upon the empanelment of Firms/Organizations, great emphasis will be laid on the ability and competence of applicants to do good quality works within the specified time schedule and in close co-ordination with Bank as well as other related agencies.
- 3. Decision of the Bank regarding selection of Firms / Organizations will be final. The Bank is not bound to assign any reason for acceptance / rejection of any applications.



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4. Each page of the application will be signed and stamped. The application shall be signed by persons/ persons on behalf of the organization having necessary authorization/ Power of Attorney to do so (Certified copies to be enclosed).
5. If the space in the Performa is insufficient for furnishing full details, such information may be supplemented on separate sheets of paper, stating therein the part of the Performa and serial number. **Separate sheets shall be used for each part. However, the format shall be strictly as per Performa.**
6. Applications containing false, incomplete and/or inadequate information are liable to be rejected. Also, mere fulfillment of eligibility criteria does not guarantee selection.
7. While filling up the application, clarification, if any, may be obtained from the office of Assistant General Manager (Premises & Estate), State Bank of India, Local Head Office, Local Head Office, SAMRIDDHI BHAVAN, B-BLOCK 9TH FLOOR KOLKATA-700001
8. Applicants selected in the SBI panel shall have to deposit a non-interest-bearing amount 2% of work order value as 'Security Deposit' as decided by the Bank. Applicants selected in the Bank's panel will be informed about the same after finalization of the panel.
9. Canvassing in any form in connection with selection is strictly prohibited and the application of such persons / organizations will be liable to rejection.
10. **Those who are already empanelled and wish to do the work in this category need to apply afresh.**
11. Bank reserves its right to reject any / all the applications without assigning any reasons, whatsoever, therefore. Incomplete / partly filled applications without relevant enclosures may not be considered for evaluation and would be rejected.
12. Disputes, if any, regarding the empanelment shall be within the jurisdiction of Court in Kolkata, West Bengal.
13. It will not be binding on the Bank to invite all the empanelled firms / vendors/firms to participate in various works. The Bank may prepare a select list out of the empanelled firms/vendors/firms to participate in a/any work.
14. Bank is not responsible for the late receipt/ non receipt due to postal delay, strikes or any other reasons. The applications received on the given date and time will only be taken up for further evaluation.
15. One bidder will be allowed to offer only one company product for participating in the tender process. The product / make should compile the technical specification as per this EOI application and demonstration of the same will be evaluated only.
16. The empanelment shall be valid **for an initial period of 03 - Years subject to satisfactory performance which will be reviewed yearly.** Bank will reserve the right to cancel empanelment by giving a notice of one month without assigning any reason.



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17. *The agencies / firms / manufacturers shall not use logo and name of the State Bank of India on their letter head, sign board and rubber stamp etc.*

**E. ELIGIBILITY CRITERIA:**

**1. Financials:**

- a) *The Manufacturer/ Firm/ Company/ Dealer/ Vendor should have an average turnover of Rs 500 Lakhs and above during last 03 Financial Years ending 31 March 2025 mainly from the business of supply, installation, testing commissioning and maintenance of Automatic Fire Detection and Alarm System (AFD&AS). The Manufacturer / Firm / Company / Dealer / Vendor should be in the same field of business of installation and maintenance of Automatic Fire Detection and Alarm System (AFD&AS) and should also be presently in same business. (Attested photocopies of the ITRs and Audited Balance Sheets of last 5 years should be provided).*
- b) The company should be in **profit during the last 03 consecutive years.**
- c) **A valid and current Solvency Certificate from a Scheduled Bank for Rs.50 Lakhs should be enclosed issued on or after 31.08.2025.**

**2. Work Experience:**

- a) The Manufacturer / Firm / Company / Dealer / Vendor should have minimum 10-Years of experience in supply, installation, testing, commissioning, maintenance and repair of Automatic Fire Detection and Alarm System. They should enclose copies of contract orders and installation certificate along with satisfactory performance certificate from customers.
- b) The Manufacturer / Firm / Company / Dealer / Vendor should have successfully completed similar works of supply, installation, testing, commissioning, maintenance and repair of Automatic Fire Detection and Alarm System for 10 years and **at least / minimum 05 reputed Public Sector Undertaking / Organization / State / Central Govt., of which minimum 02 should mandatorily be Public Sector Bank, during last 05 Years as on 31/10/2025.**
- c) The Manufacturer / Firm / Company / Dealer / Vendor should be in the field of supply, installation, testing, commissioning, maintenance and repair of Automatic Fire Detection and Alarm System related business with **Public Sector Undertaking / Organization / State / Central Govt., for a minimum period of 05 years as 31/10/2025.**
- d) They must be empanelled in **minimum 04 Banks** (Public or Private) and out of it they must be at least empanelled in **02 Bank** (Public or Private) in **WEST BENGAL, SIKKIM & ANDAMAN AND NICOBAR ISLAND.** State. Documentary proof should be provided in support of current active empanelment.
- e) **The Manufacturer / Firm/ Company/ Dealer/ Vendor and should have carried out minimum 100 new installations works of Automatic Fire Detection and Alarm**



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**System in last 5 years of which 500 installations should be in Branches / Offices of PSU Banks and the total value worth should be Rs. 200 Lakhs and above.**

- f) **The above specified 500 installations in the PSU Banks should have consisted of minimum of 10 or more detectors, below which will not be considered.**
- g) The Manufacturer / Firm/ Company/ Dealer/ Vendor and should have carried out 1000 AMC works of Automatic Fire Detection and Alarm System in last 5 years of which 500 AMC should be in Branches / Offices of PSU Banks.
- h) **Similar Work** shall mean; Supply, Installation, Testing Commissioning, maintenance and repair of AFD&AS consisting of a minimum 10 or more Detectors other than PSU Bank.
- i) The Manufacturer / Firm/ Company/ Dealer/ Vendor and should have carried out work in minimum 2 Circles for Automatic Fire Detection and Alarm System in State Bank of India.
- j) **Documentary proof should be provided in support of experience like order copy/contract copy and installation certificate/satisfaction certificate from customer. Non submissions of completion certificate will mean that the required amount of work has not been done and the proposal will not be considered. Work order and installation of integrates alarm system will not be considered under it.**
- k) The Product should be under make in India policy with class -1 local supplier. (CA Certified by OEM)

### **3. Registration Requirements:**

- a) Registration Certificate of the Firm showing the activities of the Firm or Certificate of Incorporation in case of Company.
- b) GST Registration Certificate.
- c) Pan Card.
- d) Electrical License
- e) PF & ESI Challen
- f) The applicant firm/vendor must be registered for the purpose of service tax and have a registration number for the purpose.
- g) Registration Certificate under Shops & Establishment Act issued by State Government. Those applicants who do not have valid Shops & Establishment license must enclosed herewith applied for certificate as evidence, failing which the candidature may cancelled.
- h) **Statutory Provisions:** Manufacturers/ Firms/ Companies/ Dealers/ Vendors should comply with all the updated labour laws, Rules, Regulation of concerned States and Central Government.



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#### 4. **Products Certifications:**

The components of the AFD&AS proposed to be installed by the applicant should bear certification by one of the standards as listed against each item below i.e. UL (Underwriters Laboratories Inc), BS ("British Standard"), FM ("Factory Mutual"), BIS (Bureau of Indian Standards), LPCB (Loss Prevention Control Board) ERTL(Electronic Research & Testing Laboratory) / ETDC (Electronics Testing and Development Center). A copy of relevant certification needs to be enclosed.

#### 5. **Authorization Letter:**

- a) The applicant should submit the authorization Letter from the Principals / OEMs (Original Equipment Manufacturer) / Distributors whose products are proposed.
- b) The Applicant should either be the original equipment manufacturer of the proposed system or a subsidiary company of a manufacturer company for such system or an authorized supplier / channel partner of a manufacturer / System Integrator, of the proposed system.
- c) The Applicant shall have back-to-back agreement with each of the equipment Manufacturer, so that direct support for maintenance, spares and upgrades is available **for at least 5 years** from the date of installation of the system.
- d) The Manufacturer of the equipment must have a sound and well documented Quality framework. Applicant is permitted to submit a valid ISO certificate or equivalent for the manufacturer in support of this clause. The applicant should have a well-equipped workshop and arrangements with sufficient qualified technical staff & at his support office / workshop.
- e) State Bank of India reserves the right to visit / inspect Applicant / Manufacturer facilities to ascertain the above facts. The Bank's representatives may visit the applicant's factory site / offices and contact his past clients for verification of information given by the applicant. The applicant will be required to give / arrange the necessary facilities for any such verification process.

#### 6. **Service Support Office:**

- a) The applicant should have ***an established office / service centre with adequate technical personnel at least at one of these locations i.e. Kolkata/ Burdwan/ Siliguri/ Nadia/ Murshidabad/ North 24 Pgs/ South 24 Pgs. This office/service centre should be have been operational for a minimum period of last 05 years in continuation from the date EOI backwards*** and as when required, the applicants also must be prepared to open additional support offices at new centers where Admin Offices are located from the perspective of providing 24 hours / 7 days, post implementation support.
- b) Complete address, contacts and Documentary evidence (Lease / Rent Agreement) for the same needs to be provided.
- c) **Valid Registration certificate of Shops & Establishment from State Government is mandatory.**
- d) **The contact details, specially the Telephone numbers, of service centers should**



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**remain unchanged during the currency of vendor's relation/agreement with SBI, Kolkata Circle.**

**7. Product Literatures:**

- a) Applicant shall furnish as a part of bid, documents establishing the applicant's ability to execute the work.
- b) The applicant shall also submit documentary evidence in the form of literature, drawing & data on the AFD&AS Product offered.
- c) Evaluation will be done based on the documents submitted along with the bid without any further reference to the applicant.
- d) The intending Manufacturer / Firm / Company / Dealer / Vendor who are under arbitration / litigation with our Bank or have been blacklisted / de-listed/ de-empanelled by any Government / Semi Government / Nationalized Public Sector Banks / Public Sector Undertaking (PSUs) / Financial Institutes (FIs) / Corporate Offices will not be considered for Empanelment.

**8. A valid Affidavit, on a Stamp Paper duly attested by Notary / Magistrate, to be submitted to this effect along with the application.**

**9. Applicants Having Near Relatives:**

Applicants having near relatives in the State Bank of India may not be considered for empanelment. Near relative to mean spouse, father (including step father), Mother (including step mother), Son (including step son) and / or his wife, grandson, daughter (including step daughter) and/or her husband, brother (including step brother) and/or his wife, sister and/or her husband, Father-in-law, Mother-in-law, Brother-in-law and / or his wife, Sister-in-law and/or his husband. A declaration to this effect should be submitted by the applicant as per Annexure.

**10. The intending Manufacturer / Firm / Company / Dealer / Vendor who are under arbitration / litigation with our Bank or have been black listed / de-listed / d-empanelled by any Government / Semi Government / Nationalized Public Sector Banks / Public Sector Undertaking (PSUs) / Financial Institutes (FIs) / Corporate Offices will not be considered for Empanelment. A valid AFFIDAVIT, on a Stamp Paper duly attested by Notary / Magistrate, to be submitted to this effect along with the application.**

**F. SELECTION PROCESS:**

1. Bank will evaluate the application for EOI's on Pre-qualification Mandatory Requirements based on eligibility criteria, and those who meet the criteria will be evaluated based on the scoring sheet where cut off requirements for short listing the applicants for further evaluation. Also, it may kindly be noted that there is some





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mandatory requirement in the scoring sheet which must be complied, failing which the application would not be considered.

2. Marks under each parameter will be awarded by the committee but will not be disclosed to the vendors/firms. Minimum qualifying marks shall be marks obtained within 20% of the highest obtained marks. The bids of vendors/firms securing less than the qualifying marks will not be considered for further evaluation. For example, if the highest vendor score 90 marks, then applicants scoring 72 marks and above will be considered for further process.
3. During evaluation and comparison of bids, the Bank may, at its discretion ask the vendors/firms for clarification of its bid. The request for clarification shall be in writing. No post bid clarification at the initiative of the vendor shall be entertained.
4. Only the shortlisted applicants i.e. who fulfilled the eligibility criteria and other terms and conditions would then be invited by the Bank to make a presentation of their equipment and their proposed methodology, at their own cost.
5. Only the short listed applicants would then be invited by the Bank to make a presentation of their equipment and their proposed methodology, at their own cost for execution of this project as per Technical Specifications of the Bank on the date, time and place, to be intimated later.
6. The Bank reserves its right to call open / limited tenders in which the contractors not empanelled in this process but meeting the minimum criteria for tender, can also participate. For such tenders, the empanelled contractors under this process meeting the stipulated criteria of tender can also participate.
7. Only final shortlisted applicants will be allowed to participate in financial bid through Offline bidding as per the bank's requirement. The sealed price bids may be invited for all Kolkata or may be cluster wise at the sole discretion of the bank. Detail area of operation is as under:

S. NO.	ZONES	AREA OF OPERATION
1.	Network – 1	Branches/Offices under Administrative Offices Kolkata and Bidhannagar





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2.	Network – 2	Branches/Offices under Administrative Offices Howrah and South 24 Parganas
3.	Network – 3	Branches/Offices under Administrative Offices Durgapur and Siliguri
* All Buildings under Kolkata Circle except mentioned above will also be considered in this Contract like LHO (Samridhi Bhawan), Sribriddhi Bhawan, SBIL Rajarhat, SBILD Salt Lake, SBILD Durgapur, SBILD Siliguri, RSETIs, Corporate Establishment, All Residential Complex, etc.		

8. The Bank reserves the right to reject any or all Expression of Interest without assigning any reasons whatsoever. The Bank also reserves the right to change or modify any specification / configuration on a later date / during the process of bidding / demonstration / actual installation of the system.
9. The agency who have shortlisted in the empanelment process will be eligible to submit technical indicative price bid in sealed cover and offer that they may participate in offline bidding at prefixed date & time. Based on the amount quoted in their bids, the bidders would be ranked L1, L2, L3, L4 in the order of the amount quoted.
10. The Bank reserves the right to assign or withdraw any work to or from any empanelled vendor or successful bidder without assigning any reasons and can cancel the empanelment by giving one month notice without assigning any reason in this regard.
11. Vendors so empanelled should comply with all statutory and labour laws or any other law in for the time being, rules, and regulations of central / state government at their own cost.

**G. EMPANELMENT PROCEDURE AND TERMS AND CONDITIONS:**

- 1) Sealed envelopes containing EOI application and documents received up to 1400hrs as on scheduled date will be opened at 1500 hrs on scheduled date, in the presence of the committee members. The bidders / their representative may be present at the time of opening of the technical bid. No separate intimation will be sent to the suppliers for deputing their representatives. The EOI will be evaluated and those who are found eligible will be short listed as per eligibility criteria.
- 2) The Firms who qualify in technical bid will be invited to demonstrate their product at SBI Local Head Office at time & date fixed by the Bank. Only on satisfactory performance and quality of the product the firms will get empanelled and subsequently the rates will be called from all the empanelled vendors.
- 3) The Price Bids documents as per required quality and specification of automatic fire detection & alarm system and terms & conditions only given to the technically qualified bidders and the offline bid will be opened at a later date in presence of the committee members and the bidders who attend, for finalizing the rates.



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- 4) The bank will standardize the rates based on the rates quoted by the vendors for individual item wise. The lowest/standardized rates will be circulated to the qualified vendors for their acceptance. Firms, who will give their acceptance for these rates, will be shortlisted for entrusting the work.
- 5) Rate-Contract will valid for **36 months**, no price hike shall be permitted for this period from the date of contract and these rates may be reviewed by the bank as per the market conditions after contractual period. *However, the Bank reserves the right to call fresh price bid from all technically qualified bidders if the Bank so desires.*

**H. EVALUATION OF MANDATORY REQUIREMENTS & MATRIX CUM SCORING SHEET FOR SUPPLY, INSTALLATION, TESTING COMMISSIONING AND MAINTENANCE OF AUTOMATIC FIRE DETECTION AND ALARM SYSTEM**

M/S ..... Mob. No. ....

S. NO.	PRE-QUALIFICATION OF MANDATORY REQUIREMENTS	WHETHER COMPLIED?	REMARKS
1.	Minimum average audited annual turnover Rs. 500 lakhs in last three financial years ending 31/03/2025.	Yes / No	
2.	Copy of audited balance sheet during last five financial years (2020-25) (2020-21, 2021-22, 2022-23, 2023-24 & 2024-25)	Yes / No	
3.	Attested copies of Income tax returns (ITRs) for 05 years as above said.	Yes / No	
4.	Solvency certificate submitted / enclosed of Rs. 50 Lakhs	Yes / No	
5.	Minimum 10-years relevant experience in the field of SITC & AMC of AFD&AS.	Yes / No	
6.	Minimum 10-years relevant experience in the field of SITC & AMC of AFD&AS of minimum 02 reputed Public Sector Undertaking / Organization / State / Central Govt., of which minimum 02 should mandatorily be Public Sector Bank	Yes / No	
7.	The Manufacturer / Firm/ Company/ Dealer/ Vendor must be empanelled in minimum 04 Banks (Public or Private) and out of it they must be at least empanelled in 02 Bank (Public or Private) in West Bengal State.	Yes / No	
8.	The Manufacturer / Firm/ Company/ Dealer/ Vendor and should have carried out minimum 1000 installations works of Automatic Fire Detection and Alarm System in last 5 years of which 500 installations	Yes / No	

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	should be in Branches / Offices of PSU Banks and the total value worth should be Rs. 200 Lakhs and above.		
9.	The above specified 500 installations in the PSU Banks should have consisted of minimum of 10 or more detectors, below which will not be considered.	Yes / No	
10.	The Manufacturer / Firm/ Company/ Dealer/ Vendor and should have carried out 1000 AMC works of Automatic Fire Detection and Alarm System in last 5 years of which 500 AMC should be in Branches / Offices of PSU Banks. The total value worth of AMC works should be Rs. 200 Lakhs and above	Yes / No	
11.	Pan, Aadhar Card, Service Tax No. and Goods and Services Tax Numbers (GSTs)	Yes / No	
12.	Certificate from one of these: UL; LPCB; ERTL;CE or equivalent (please mention & enclose its certified copy)	Yes / No	
13.	Authorization letters from principal / OEMs whose products are proposed.	Yes / No	
14.	Copy of back-to-back agreement with each of the equipment Manufacturer, so that direct support for maintenance, spares and upgrades is available for minimum 5 years which will valid up to January 2030.	Yes / No	
15.	Should be an <b>Established Office / Service Centers in West Bengal, Sikkim and Bay Islands</b> and should have been operational for a minimum period of 05 years from the date of EOI backwards.	Yes / No	
16.	Complete address, contacts & documentary evidence (lease/Rent Agreement) of established office/centre registered under shops & establishment from State Govt norms as on date of publication of tender notice.	Yes / No	
17.	Blacklisted from any Public Sector Bank's / Govt. undertaking (notarized certificate)	Yes / No	
18.	Is there any dispute pertaining to business as rendered/ sought by you in court of law or any judicial authority? (undertaking letter on company letter head)	Yes / No	
19.	Willing to accept AMC for existing and new automatic fire detection and alarm system.	Yes / No	



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<b>MATRIX FOR EVALUATION</b>			
<i>(Minimum qualifying marks is 150 and should obtain minimum in each category)</i>			
<b>S. NO.</b>	<b>PARTICULARS</b>	<b>MARKS</b>	<b>SCORED MARKS</b>
1.	Average Annual Turn Over Last 3 Years		
	Above 1000 Lakhs	<b>10</b>	
	More than 500 Lakhs & up to 1000 Lakhs	08	
	Minimum 500 Lakhs	05	
2.	The solvency certified by a Scheduled Bank. The Solvency Certificate should not have been obtained earlier than 31/08/2025.		
	Above 100 Lakhs	<b>10</b>	
	More than 50 Lakhs & up to 100 Lakhs	08	
	Minimum 50 Lakhs	05	
3.	Relevant Experience in Fire Alarm (As On 31.08.2025)		
	15 years and above	<b>10</b>	
	10 years and less than 15 years	08	
	Up to minimum 10 years	05	
4.	Minimum 05-years relevant experience in the field of SITC & AMC of AFD&AS of reputed PSUs/Govt. Org of which 02 public sector bank. (As On 31.10.2024)		
	10 years and above	<b>10</b>	
	More than 05 years and less than 10 years	08	
	minimum 05 years	05	
5.	Installation of Fire Alarm System at Govt. / Public Sector Undertaking / Organizations including Bank		
	More than 5 organizations of which more than 3 public sector banks	<b>10</b>	
	Minimum 5 organizations of which 3 public sector banks	08	
	Minimum 5 organizations of which 2 public sector banks	05	
6.	No. of installations in last 05 years		
	More than 1500	<b>10</b>	
	More than 1000 and up to 1500	08	
	Minimum 1000 (min 200 Lakhs)	05	

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7.	Number of installations in public sector bank last 05 years (minimum 10 detectors)		
	More than 1000	10	
	More than 500 and up to 1000	08	
	Minimum 500	05	
8.	No. of AMC in last 05 years		
	More than 2000	10	
	More than 1000 and up to 1500	08	
	Minimum 1000	05	
9.	No. of AMC in public sector bank last 05 years		
	More than 1000	10	
	More than 500 and up to 1000	08	
	Minimum 500	05	
10.	Service support centers at 07 locations within the area of jurisdiction of WB, Sikkim and Bay Islands		
	5 and above service support office	10	
	3 to 4 service support office	08	
	2 service support office	05	
11.	An established office / service centre with adequate technical personnel at least at one of these locations i.e. <i>Kolkata/ Burdwan/ Siliguri/ South 24 Pgs./Murshidabad/Nadia/Sikkim and Andaman Nicobar</i> . This office/service center should have been operational for a minimum period of <b>05 years</b> from the date EOI backwards		
	Above 07 years	10	
	More than 05 years and less than 07 years	08	
	05 years	05	
12.	Demonstration of the product offered a) Technical Presentation - 15 b) Equipment demonstration - 20	35	
13.	Committee assessment: Assessment of Company with regard to its reputation, experience and infrastructure	05	
	<b>Total Maximum Marks</b>	<b>150</b>	



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Note: -

- a) Marks under each parameter will be awarded by the committee but will not be disclosed to the vendors/firms. Minimum qualifying marks shall be marks obtained within 20% of the highest obtained marks. The bids of vendors/firms securing less than the qualifying marks will not be considered for further evaluation. **For example, if the highest vendor scores 90 marks, then applicants scoring 72 marks and above will be considered for further process.**
- b) During evaluation and comparison of bids, the Bank may, at its discretion ask the vendors/firms for clarification of its bid. The request for clarification shall be in writing. No post bid clarification at the initiative of the vendor shall be entertained.
- c) Only the short-listed applicants i.e. who fulfilled the eligibility criteria and other terms and conditions would then be invited by the Bank to make a presentation of their equipment and their proposed methodology, at their own cost.

#### **I. AWARD CRITERIA**

1. As the number of branches and area is quite large, it is considered that it is beyond the capability of one vendor to carry out the same. In view of the above the work may be distributed amongst the Vendors/firms/Bidders at L-1 rates. The allocation of work will be done in the following manner provided the vendors/firms at L-2, L-3 etc., are willing to are willing to accept L-1 rates:
2. The Bank will award the Contract to the successful Vendor(s) who has been determined to qualify to perform the Contract satisfactorily, and whose Bid has been determined to be responsive, and is the lowest evaluated Bid i.e L-1. **The Bank may, if considered necessary, hold comprehensive price negotiations with L-1 vendor.**
3. In case L-1 shows unwillingness to work than again commercial bidding (Offline) will be done. **The L-1 vendor who after bidding showed unwillingness to do work, his EMD and Security Deposit will be forfeited and will not be allowed to participate in future tender process for two years.**
4. The Bank reserves the right at the time of award of contract to increase or decrease the numbers of branches or numbers of fire alarm system required or change in location where equipments are to be supplied from what was originally specified while floating the EOI without any change in unit price or any other terms and conditions.
5. It will be mandatory to accept work of Regions comprising of urban as well as rural branches and vendor should be willing to take up work of supply and maintenance together. Once final list of panel is arrived at after financial bid, Bank has a right to allot the work / areas / region to any vendors/firms based on commonality in AFD&AS so as to have a better vendor management and also as per the emergent requirement of the Bank the work could be assigned to any vendor.



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6. The allotment of vendors/firms and allocation of work shall be done by the Bank in the following ratio, with the overriding consideration that as far as practical/ possible the RBOs shall be the smallest unit of allocation and vendors/firms shall not share work in any RBO. For easy monitoring, effective control, easy follow up without spill over of Branches to other zones, zone wise allotment shall be considered.
7. The firms will have to enter into annual maintenance contract agreement with our respective Administrative Offices / Regional Offices for servicing of fire extinguishers in the branches under their control.
8. Allotment of work and the area of operation to the finally empanelled vendors/firms would be at the sole discretion of the Bank.
9. The rate contract shall initially be for a **period of 24 months**. At the end of this period the bank reserves the right review the rate rates as per the market trend.
10. The Bank reserves the right to reject or accept any or all the offers without assigning any reasons and to cancel the empanelment by giving clear one-month notice.
11. Vendors/firms so empanelled should comply with all statutory and labour laws, rules and regulations of central/state govt. at their own cost.
12. Training to be provided by manufacturer at site to Department officers. Operator level training should be provided by the applicant at their own cost.
13. Incomplete applications and those received late will be rejected by the Bank. The decision of Bank to accept or reject any application for pre-qualification will be final.
14. If at any stage the information furnished by the applicant is found to be incorrect / in accurate the empanelment of the applicants is liable to be cancelled at the sole discretion of the Bank.
15. Bank will not enter any correspondence with applicant except in case of clarification sought with regard to this document only if considered appropriate by the Bank.

**J. AVAILABILITY OF APPLICATION FORM FOR EXPRESSION OF INTEREST AND SUBMISSION THEREOF:**

1. Document / Application form for EOI may be downloaded from <https://www.sbi.co.in> through 'procurement news' link.
2. For further clarification, if any, may please be email on [fo.lhokol@sbi.co.in](mailto:fo.lhokol@sbi.co.in) or contact Circle Fire Officer (9674703101) during office hours i.e. 1000 AM to 1700 PM.
3. Forwarding letter and the application form for Expression of Interest along with required enclosures, completed in English and duly signed by the authorized signatory must be submitted, in sealed envelopes, super scribed "**Expression of Interest for Automatic Fire Detection & Alarm System (AFD&AS)**" along with the company profile and the relevant certificates / documents and should reach the following address by 1400 hours on or before **27/01/2025**.





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**Assistant General Manager (P&E)**  
**State Bank of India, Local Head Office,**  
**Premises & Estate Department**  
**9<sup>th</sup> Floor, Local Head Office,**  
**1, Strand Road,**  
**Kolkata - 700001**  
Tel Ph: - 9674703101  
E mail – agmpre.lhokol@sbi.co.in  
& fo.lhokol@sbi.co.in

***Note: The interested firm are advised to keep on visiting Bank website <https://www.sbi.co.in> for any subsequent changes / corrigendum / addendum / additions / updates etc., for which there would no press notifications.***

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**K. GENERAL REQUIREMENTS AND MINIMUM TECHNICAL SPECIFICATIONS OF AUTOMATIC FIRE DETECTION & ALARM SYSTEM (AFD&AS)**

**1. GENERAL:**

The purpose of a fire detection and alarm system is to detect fire at the earliest practicable moment and to give an alarm so that appropriate action can be taken (e.g. evacuation of occupants, triggering of extinguishing processes etc.). An alarm system may be activated by automatic detection devices or by manual operation of manual call points.

The general principles given below are a guide to design and construction of fire detection and alarm systems. A fire detection and alarm system should:

- a) Detect quickly enough to fulfill its intended functions.
- b) Reliably transmit the detection signal.
- c) Translate this signal into a clear alarm indication that will attract the attention of the user in an immediate unmistakable way and indicate the location of fire and initiate operation of ancillary service, such as fire extinguishing system etc.
- d) Remain intensive to phenomena other than those which its function is to detect and
- e) Signal immediately and clearly any supervised fault that might jeopardize the correct performance of the system.

**2. SCOPE OF WORK:**

The work under this section shall consist of furnishing all labor, material, equipment, and appliances necessary and required to completely install automatic and manual fire detection and alarm system facility as required by the drawings and specified here in after or given in the schedule of qualities.



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Without restricting to the generally of the foregoing the fire Detection & Alarm System shall include the following: -

- a) Ionization smoke detectors, Optical Detectors, Rate of Rise cum Fixed Temperatures Heat Detectors, Fixed temperature heat detectors, Beam Detector, Manual call points, Electronic Hooters/Sounders, Response Indicators, and Accessories as specified.
- b) Metallic conduits (rigid/flexible), PVC insulated copper conductor cables, armored cables, glands, tees, bends, special fittings, junction boxes etc. as specified.
- c) Main Fire Alarm Control panels, local control panels (floor panels), batteries, and battery chargers etc. as specified.
- d) Health Monitoring System facility AO wise Software & System access for LHO And AO Fire Officers to monitor branch wise day to day status.

**3. GENERAL REQUIREMENTS:**

- a) All material shall be of the best quality confirming to Specifications and subject to the approval of the Bank Fire Officer.
  - b) All conduit pipes/cables shall be fixed truly vertical, horizontal or in slopes as required in a neat workman like manner or as advised by the Fire Officer
  - c) All conduits, cables, junction boxes etc. shall be securely fixed to brick/RCC walls and ceilings by suitable clamps at regular intervals. Only approved type of anchor fasteners shall be used.
  - d) Control panels shall be so located that they are easily accessible for operations, repairs, and maintenance.
4. Detectors shall be provided at appropriate spacing as given in IS: 2189:2008. The spacing shall also be in conformity with the drawings and properly coordinating with electrical fixtures, air conditioning ducts / grills, beams and other ceiling services. Contractor shall submit detailed layout drawings to LHO Fire Officer & Respective AO Fire Officer in charge for approval before commencement of work.

**5. SMOKE DETECTORS:**

**a) Optical Type:**

Optical smoke Detectors shall contain an emitter, a solid-state light emitting diode (LED) which, with its associated lens system, shall produce a hollow circular beam of light. A silicon photocell shall be positioned in the central dark area of the hollow beam, so that in the absence of smoke no light is received. When smoke enters the chamber a combination of reflection and deflection from smoke particles shall cause light from the beam to impinge on the photocell. The detector shall be listed with UL/FM approved.

- b) Ionization Detector should respond to visible as well as invisible smoke generated by shouldering or open fire. It shall basically consist of two ionization chambers



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containing American – 241 foils, an electronic circuit, connection contacts to the base an easy to clean protective housing. The detector shall also be compatible to work with heat and photo electronic (optical) smoke detectors and shall have interchangeable base. The detectors shall be UL/FM/CE listed approved.

#### **6. HEAT DETECTORS:**

The heat detectors shall be combined rate of rise cum Fixed temperature, Re-settable type preferably operating on twin thermistor principle where one thermistor is exposed and is therefore in good thermal contact with the surrounding air and responds quickly to changes in air temperature and the other is thermally insulated from the surrounding and responds less quickly resulting in electrical imbalance. One fixed temperature setting the detector shall operate at 60°C. The sensitivity of the detector shall be as per the requirements of IS: 2175 for grade I Heat Detectors. The detectors shall be UL/FM listed approved.

#### **7. BEAM DETECTORS:**

A beam detector, primarily a beam smoke detector, uses a projected infrared light beam across large open spaces (like warehouses, theaters) to detect fire by sensing smoke particles that block or scatter the light, triggering an alarm; they use a transmitter/receiver (often single-ended with a reflector) to monitor beam interruption for effective, cost-efficient detection in high-ceiling or vast areas where spot detectors struggle.

#### **8. MANUAL CALL POINT:**

Each manual call point unit shall comprise of a push button of reputed make enclosed in an M.S./Cast Aluminum Box with provision for cable or conduit coupling/gland from top. The manual push button shall have the words prescribed in clear bold letters on facial window. “**In case of Fire Break Glass,**” installation of the manual push button shall be as per IS: 2189. The push button shall not be shrouded and the same shall be projecting out of the surface of the M.S. Box.

#### **9. ELECTRONIC HOOTER (SOUNDER):**

The dual tone electronic hooter shall be provided so that it gives discontinuous/intermittent audible alarm automatically whenever the automatic/manual detector operates and is distinct from the background noise in every part of the premises. The mode of the alarm sounders shall be quite distinct from any other sounder to be heard. All hooters shall produce a similar sound and shall maintain the same during their operation. Hooter shall



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be complete with electronic oscillation, magnetic coil (sound coil) and accessories ready for mounting (fixing) and confirming to IS: 2189-2008.

**Sounder cum Strobe:** The Sounder Cum Strobe shall confirm to the relevant standards having the following features.

- i.) The Sounder Cum Strobe Shall have audibility level of 85dB.
- ii.) The Sounder Cum Strobe shall have 4 Candela setting 15/30/75/110cd flashing capacity at 1HZ for Visual indications.
- iii.) The Sounder Cum strobe shall be working on NAC.

The sounder shall have two audible tone settings.

#### **10. REMOTE RESPONSE INDICATOR:**

The remote Response indicator shall consist of a steady glowing LED similar to the one provided at the base of the detector. This LED shall be mounted with in a M.S. box of 16 SWG and connected in parallel to the built-in indicator of the detector by a 2-core cable. The response indicator shall come "ON" as soon as the detector actuates. The M.S. enclosure shall be painted externally and internally in synthetic enamel paint of approved shade. The LED shall be so provided that it is visible from the side also. This should be suitable for both surfaces and recess wall or ceiling mounting. It shall be Dual LED Indicator and operates 12V DC.

#### **11. MICROPROCESSOR BASED CONTROL PANEL:**

Good quality design and with latest technology for fire alarm control panels. This microprocessor based conventional Fire Alarm Control panel, is designed to be used for Commercial bank's building. The model should be a user friendly 4 or more zone standalone control panel with inbuilt USB and optional Ethernet & GSM module.

##### **Panel Features:**

- a) As per IS -15908: 2011 Standard.
- b) Switched Mode Power Supply.
- c) Modular Construction, Serviceable.
- d) Battery polarity & deep discharge protection.
- e) 16 X 2 Dot Matrix LCD Display.
- f) Event log with Real Time Clock (150 events).
- g) Standby battery backup with built in charging.
- h) Fire / Fault status in unambiguous colored LED indication.
- i) System ON, Mains ON & Standby ON status indication.
- j) Low Battery visual warning with audible tone.
- k) Relay output for actuators, for Fire and Fault.
- l) Zone wise one man Walk Test Facility.
- m) Zone wise test cum evacuate facility.
- n) Zone wise Isolation facility with loop voltage cut off.
- o) USB Interface for PC Connectivity.
- p) Compatible to all type of Conventional Detectors.



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- q) Optional Ethernet and GSM (SMS) facility.
- r) Includes centralized monitoring facility through Ethernet port.

**GSM Features:**

- a) Quad Band GSM/GPRS: 850 / 900 / 1800 / 1900 MHZ.
- b) GSM based SMS Notification includes location details.
- c) Contact wise Event Configurable.
- d) Maximum 15 mobile contacts can be configured via Software.
- e) Separate Fire and Fault message.
- f) 15 Mobile numbers for each event type.
- g) GSM Signal Strength indicator.

**Ethernet Features:**

- a) 10/100M high speed, automatically adapts to any TCP/IP interface.
- b) Ready-to-use TCP/IP firmware for fast integration.
- c) Easy configuration with Web browser, serial console, Telnet console or Windows utility.
- d) Low power consumption.

**PC Features:**

- a) Monitoring the status of Fire Alarm System
- b) Audible & Visual alerts for Zone wise Fire & fault.
- c) Multiple FACP shall be monitored and controlled from single Desktop with static IP.
- d) User friendly PC software.
- e) Shall supports USB, LAN & WAN connectivity

**Electrical Specification:**

- a) **Primary Power:** -120 / 220VAC + 10% -15%, 60 / 50 Hz. 60W
- b) **Standby Power:** - 24VDC (2 Nos. of 12V, 7Ah Sealed Lead acid battery).
- c) Quiescent current: - 60mA (without Ethernet), 102mA (with Ethernet), 128mA (Ethernet & GSM)
- d) **Operating Condition:** - Operating Temperature - 0 - 49° C/32-120° F.
- e) Storage Temperature - 0° to 60 ° C
- f) Relative Humidity - 93 ± 2% RH (non- condensing) at 32 ±2° C/90 ±3° F.
- g) **Notification Appliance Circuits:** - Class B wiring
- h) Operating Nominal Voltage: 24VDC, Current for NACs: 0.6 Amps
- i) End-Of-Line Resistor: 4K7, 1/2 watt
- j) **Charging Circuit:** -
- k) Charging Voltage - 28.0V, ± 2%, Charging Current - 0.5 A (Max.)
- l) **Common Relays:** - Type: Form C, No of Relays: 2, Relay Contact Rating: 2Amps @ 30 VDC, 0.5Amps @125VAC. Power Factor: 1.0
- m) **Initiating Device Circuits (Zone Circuit):-**
- n) All zones are Class B wiring, Normal Operating Voltage: 14- 21 VDC, Alarm Current: 15 - 35mA, Short Circuit Current: 42mA Maximum
- o) Loop resistance: 50 ohms Maximum, End-Of-Line Resistor: 4.7K, 1/2watt, stands by Current: 6.8mA, (2.4mA for Detectors).



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**Mechanical Specification:**

- a) Dimensions: (350W X 250H X 100D)
- b) Color: Red / White
- c) Construction: 18 Gauge (1.22mm) CRCA sheet with powder-coated finish
- d) IP Rating: IP50
- e) Cable Entry: 16xø19mm Knockout on top of the cabinet

**Compatible Devices:**

- a) Photoelectric Smoke detector with base.
- b) Heat detector with base.
- c) Photoelectric & Heat detector with base.
- d) Beam Detector (If installed)
- e) Conventional Manual Call Point.
- f) Conventional Sounder.

**(NON-ADDRESSABLE)**

Good quality design and with latest technology for fire alarm control panels. This microprocessor based conventional Fire Alarm Control panel, is designed to be used for Commercial bank's building. Control Panel 2 / 4 / 8 Zone Fire Alarm Control panel with provision to add at least 8 repeater panels Microprocessor based system **SMPS** power supply, battery backup and inbuilt Charger and inbuilt transient protection for power supply and mother board LCD Display & Tactile keypad with password protection Two Form C programmable Relays for fire, fault and supervisory Four/ Eight Style B (Class B) Initiating Device Circuits(IDC's) Two programmable NAC output facility IP-50 rating and compatibility with all conventional detectors Inbuilt RS-485 communication capability; provision to have zone wise sounder output and / or zone wise relay output. Other detailed requirements are as under:

**Panel Features:**

- (I) **Primary Power:** 110 - 260VAC  $\pm$  10%, 50 Hz, 2.5Amps.
- (II) **Standby Power:** 24v D.C (2 Nos. of 12v, 12Ah SMF battery).
- (III) **Operating Condition:**
  - Operating Temperature – 0 - 49° C/32-120° F.
  - Relative Humidity – 93 $\pm$ 2% RH (non - condensing) at 32  $\pm$ 2° C
- (IV) **Charging Circuit**
  - Charging Voltage – 28.2V,  $\pm$ 0.5V
  - Charging Current – 800mA (Max.).
- (V) **Initiating Device Circuits**
  - All zones are Class B Style B/C operation (Programmable).

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- Normal Operating Voltage: 14 - 21 VDC.
- Alarm Current: 15 – 30mA.
- Short Circuit Current: 45mA Maximum.
- Loop resistance: 100 ohms Maximum.
- End-Of-Line Resistor: 3K9, 1/2watt
- Standby Current: 7mA (2mA for Detectors)

**(VI) Notification Appliance Circuits**

- Class – B Style - Y wiring
- Operating Nominal Voltage: 24VDC – Special Application
- Current for all NACs: 1.2Amps (0.6A per circuit)
- Current Limit: CN5 and CN6 via Thermal Fuse
- Line Drop: 1.8V
- End-Of-Line Resistor: 3K9, 1/2watt

**(VII) Operating Voltage:**

- Supervised 24VDC regulated, 300mA Max. (For 4 wire smoke detector)
- Common Two Forms – C Relays – CN2, CN3, CN4
- Relay Contact Rating: 2Amps @ 30 VDC, 0.5 Amps @ 125VAC.
- Power Factor: 1.0

**(VIII) Controls:**

**a) ACK. Key:**

- To mute local buzzer in alarm condition.
- To mute local buzzer in Supervisory or fault condition.
- User or Admin password protected.

**b) SILENCE Key:**

- To silence the external NACs in Fire Condition.
- User or Admin password protected.

**c) RESET Key:**

- To reset the particular zones in Fire alarm or Latched Supervisory condition.
- User or Admin password protected.
- Possible to access only after silence in alarm condition.

**EVACUATE:**

- To activate External NACs Manually.
- User or Admin password protected.

**e) CURSOR KEYS:**





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To move the cursor, point in the LCD as required.

**f) ENTER Key:**

To accept the programmed or edited menu, mode or value in the LCD.

**g) MENU Key:**

To enter into the Main Menu in the LCD.

**h) CHANGE KEY:**

To change the status of modes.

**(IX) Indications:**

- LED indication
- System on – Green
- Fire – Red
- Fault – Yellow
- Supervisory – Yellow
- Mains Fail – Yellow
- Battery Fault – Yellow
- Earth Fault – Yellow
- System Fault – Yellow
- Silenced – Yellow
- NAC Fault – Yellow
- Walk Test – Yellow
- Charger Fault - Yellow
- Zone Fire – Red
- Zone Supervisory – Yellow
- Zone Fault – Yellow ✓ Zone Disable – Yellow

**(X) LCD Indication:**

The LCD is mainly used for the programming of the panel. It also indicates all events along with the LED indications except system on and system fault.

**(XI) Local Buzzer**

- A piezo buzzer provides separate and distinct sounds for alarm, trouble and supervisory conditions:
- Alarm – Continuous
- Fault – pulse 0.5sec ON and 5sec OFF
- Supervisory – pulse 0.25sec ON and 0.25sec OFF

**(XII) Mechanical Construction**



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The enclosure of the Panel is constructed by minimum 16 gauges, CRCA sheet with powder coated finish for Indian Std.) 10 no's of knockouts are given for cable entry at the top of the cabinet. The lockable hinged door is provided to access the inside the cabinet. The panel also has sufficient space to accommodate 2 Nos. of 12v, 7Ah batteries.

**(XIII) Cabinet**

The Cabinet measures 440mm width X 340mm Height X 120mm Depth and space is provided for 2 x 12 Volt 7Ah Batteries, main circuit board and display board.

**(XIV) Switch Functions**

The Keys, which are non-masked, are used for the general operation of the Fire Alarm Panel. The non-masked keys are Silence, Reset, Ack., Evacuate and Enter keys.

- a) **SILENCE Key:** When the silence key is pressed, after entering the user or admin password the following will occur:

The silence able Notification Appliance Circuits will be turned OFF, the Silence LED will be turned ON. Upon the occurrence of a subsequent fire event, Signal Silence is overridden, and the control panel will respond to the new event.

- b) **RESET Key:** When the Reset key is pressed, after entering user or admin password, the control panel will:

- Clear the status LED's.
- Bring back the LCD display to the healthy condition.
- Turn off the Notification Appliance Circuits.
- Reset fire zones by temporarily removing power.
- Restore all system relays to normal.
- Temporarily remove power from the resettable power output.
- The Reset key is accessible only after silencing in alarm condition.

Any alarm, supervisory or trouble condition that exists after a system reset, will resound the system, reactivating normal system activity

- c) **RESET Key:** When the Reset key is pressed, after entering user or admin password, the control panel will:

- Clear the status LED's.
- Bring back the LCD display to the healthy condition.
- Turn off the Notification Appliance Circuits.
- Reset fire zones by temporarily removing power.
- Restore all system relays to normal.
- Temporarily remove power from the resettable power output.
- The Reset key is accessible only after silencing in alarm condition.

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- Any alarm, supervisory or trouble condition that exists after a system reset, will resound the system, reactivating normal system activity.
- c) **ACK. Key:** This key is used to acknowledge the buzzer tone during the fault and fire condition. This key can be operated with user or admin password.
- d) **EVACUATE Key:** This key is used to energize the all-external NAC's without actual fire; it will operate at user or admin level. Using the silence key NAC output can be silenced.
- e) **ENTER KEY:** This key is used to accept the entries and edit the programmed menu.
- f) **MENU Key:** This key is used to get into the program menu and get back to the previous menu screen.
- g) **CURSOR KEYS:** The cursor keys (Right / Left arrows) are used to move the cursor point wherever required.
- h) **CHANGE KEYS:** This key is used to change the status of modes & to clear the password entries.
- i) **SYSTEM ON:** This LED will glow when the panel is energized by primary and standby power. This is the only LED glowing in the normal monitoring condition. The LCD Display will show as FIRE ALARM, SYSTEM HEALTHY.
- j) **MAINS FAIL:** Whenever the Main Supply (110 - 220v A.C) fails, the Mains fail LED will be illuminated and it also indicated in LCD with toggle Buzzer tone. The LCD Display as shown in the figure 22, 'Mains fail' will be displayed in the fault screen.
- k) **BATTERY FAULT:** Whenever the backup battery fails, the battery fault LED will be illuminated, and it also indicated in LCD with toggle Buzzer tone. Similarly, the same LED will be illuminated when the battery voltage goes down below the 21.6v (Battery Low).
- l) **CHARGER FAULT:** Whenever the battery charger section is fails, the charger fault LED will be illuminated, and it also indicated in LCD with toggle tone.
- m) **EARTH FAULT:** Whenever the Initiating Device circuits (IDCs) and Notification Alarm Circuits (NACs) are gets contact with the Earth or Body of the cabinet, the corresponding fault LED, earth fault LED and common fault LED will be illuminated, and it also indicated in LCD as corresponding circuit is earth fault with toggle Buzzer tone. The Earth fault can be created through 0 Ohms resistor.
- n) **SILENCED:** This LED will glow when the silence key is pressed in fire condition only.
- o) **NAC FAULT:** Whenever there is any fault in Notification Appliances Circuits like NAC loop Open / Short / Earth fault, it will be identified by COMMON NAC FAULT LED.

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- p) **WALK TEST:** The Walk test and zone disable LED will glow whenever the zones are under walk test mode.
- q) **FIRE:** This twin fire LED will glow when any one or more of the zones are in fire condition.
- r) **FAULT:** This fault LED will glow when any one or more of the zones are in fault condition.
- s) **ZONE FIRE:** This fire LED will glow when the zones are fire condition. The first fired zone continuously in blink and other zone fire LED will glow steadily in fire condition. The fired zone is displayed in the LCD, first fire zone and total no. of zone is displayed separately.
- t) **ZONE FAULT:** This fault LED will glow when there is an open or short or earth fault in that particular zone.
- u) **ZONE DISABLE:** This zone wise LED glows steadily in disabled condition and blinking in the Walk test mode.
- v) **Lamp Test:** The lamp test function done by pressing 'Enter' key in system (Panel) is normal condition. In this mode, all the LED's are checked for good condition by glowing all LED's.

**(XV) Walk Test Mode:**

The panel should provide the capability to perform a walk test of the system without triggering the Fire Relay, alarm output (NAC) relay. Walk test Mode allows for testing of all the zones. An audible or silent walk test may be performed. For an audible walk test, the initiating device activated on a zone will cause the Notification Appliance Circuits to turn on for five seconds. Any smoke detectors that are activated will be reset automatically. Zonal faults (open circuits) will cause the NAC to remain on steadily. Prior to entering Walk test Mode, check to be certain that zone fault has been cleared. Placing the control panel into Walk test Mode will only be possible if the system has no active alarms. After entering into the walk test mode, the fire relay contact disablement is activated automatically, and it will go back to previous status while we are coming out from this mode. For other zones that are not in test condition, if they sense any fire, then the Fire relay output will activate by considering it as actual fire.

- Disable the fire relay
- Display all alarm conditions as they occur
- Display all zone troubles as they occur
- Display all system troubles as they occur

**(XVI) Compatible Devices:**

- a) Photoelectric Smoke detector with base.
- b) Heat detector with base.



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- c) Photoelectric & Heat detector with base.
- d) Conventional Manual Call Point.
- e) Conventional Sounder.

**(XVII) Additional features:**

- Microcontroller-based 2/4/6/8 Zone Conventional Fire Alarm Panel
- Supports 2-wire international standard smoke detectors (up to 20 per zone)
- Inbuilt GSM and IP Digital Communicator
- Multiple communication options: IP, SMS, and Call
- Sends alarm and status SMS to mobile numbers and multiple alarm and status IP
- Alerts to central monitoring system and Fire Alarm Monitoring Software (FAMS)
- Inbuilt Ethernet port with 10/100 Mbps support
- Inbuilt IP module supports SIA DC09 universal protocol for third party integration with central monitoring software.
- 10 programmable telephone numbers for fire messages and calls
- 4 voice messages (one per fire zone)
- Programmable call/SMS options: Call & SMS, Call Only, SMS Only, Disable Both
- GSM voice recording through inbuilt user-friendly IVR
- Zone Alarm SMS Can be sent to all users in case of fire zone trigger
- System instantly sends Fire Panel Fault alarm via SMS, Call and IP communicator to keep you updated about your fire alarm system (Optional)
- Personalized input labels in alarm SMS
- Full system configuration via mobile app and Windows software for inbuilt dialer and Digital communicator operation and programming.
- Mobile app features: Stop dialing/SMS, edit phone numbers, silence alarms, evacuate, and reset panel.
- Manual control buttons: Common Evacuate, Zone-Wise Evacuation, Lamp Test, Silence, and Reset
- 16x2 dot matrix LCD display for real-time status updates
- Zone isolation through LCD based Menu.
- 29 LED indicators for panel status with double LED fire indication
- LED indicators for Mains ON, Low Battery, Silence, Fire, and Fire Fault, DC ON, Dialing/Comm ON, Dialer Active, F1-Netwok LED
- Individual zone indication for Fire, Short, Open, or Isolation condition
- Powered common sounder relay output

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- Zone-wise sounder relay outputs
- . Common Fire relay (COM-NO-NC) and Fault relay (COM-NO-NC)
- Operating Voltage 24V DC
- Provision to install two 12V 7AH batteries to provide uninterrupted power backup in case of power cut.
- Inbuilt battery charger
- Aesthetically designed Solid metal cabinet.

Technical Specifications

- Electrical and Power Supply
- Mains Input voltage: 150VAC-260VAC 50HZ
- System operating voltage: DC 24V
- Zone voltage: 17V to 24V
- Zone Quiescent Current 4.2 mA approx.
- Zone Alarm current: 20 mA to 30 mA approx.
- Zone Short Circuit Current: 32 mA approx.
- Sounder Operating Voltage: DC 24V
- Sounder Fuse: 2 Amp 20mm
- Auxiliary Fuse: 1 Amp 20mm
- Maximum Sounder Output: 1 Amp
- Battery Voltage: 24V (12V X2)
- Battery Type: SMF
- Battery Capacity: 2 X 12V@7Ah
- Battery Recharge Voltage: 27+/-0.2V DC
- Internal Buzzer Type: Piezo Type

## **8.2 ADDRESSABLE**

**The following features should be available in the AIFAS**

- (i) s
- (ii) Each Component on the loop viz. sensor, call point etc. has its unique address and in case of actuation, the system must display the sensor number and its location on a LCD display having a capacity of four lines and each line has 20 characters.
- (iii) The System compatible to 'addressable detectors' as well as with conventional detectors of 'Apollo, make' with use some modification.



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- (iv) The loop has the capacity to add one or more addresses, if required, up to a number of 250.
- (v) If the loop is totally disconnected at any one point, all the detectors still able to detect fire/ fault besides enunciating the trouble through LCD display.
- (vi) Change of polarity of the loop does not affect its performance.
- (vii) Change of polarity of loop displays on LCD Screen.
- (viii) Detector loop short fault displays on LCD.
- (ix) In addition to SL No. 2 above, any address also has more than one detector, if so desired by Bank. For example, 'Record Room' has two or more detectors in the same address.
- (x) The Main Control Panel is displaying 'Module Fault', such as
  - (a) Detector OPEN
  - (b) Detector SHORT
- (xi) Change the polarity of the battery does not affect its performance.
- (xii) Battery is connected or not, displayed on LCD.
- (xiii) REVERSE Polarity of battery is displayed on LCD.
- (xiv) The battery has pulse width modulation charging arrangement.
- (xv) LOW VOLTAGE of battery displayed on LCD.
- (xvi) There is OVER VOLTAGE cut-off facility.
- (xvii) Battery Charging indication is displayed on LCD.
- (xviii) Hooter is connected or not, displayed on LCD.
- (xix) System on AC or DC is displayed on LCD.
- (xx) EARTH is connected or not, displayed on LCD.
- (xxi) The system has Real Time Clock (RTC).
- (xxii) The system is capable of operating under any voltage between 80 Volts to 260 Volts without any malfunctioning whatsoever.
- (xxiii) In Built AUTO-DIALER with 6 stored numbers is available. (xxiv) The System has a programmable Hooter off timer.
- (xxv) There is an automatic self-testing mode.
- (xxvi) The sequential fire detection & alarm process will start with a Warning BEEP immediately on detecting a fire then the system reset automatically and on second time detection of the fire, it will be confirmed, and the Hooter will go on. This will cut the chances of false Alarm. However, the whole process does not take more than 10 seconds.
- (xxvii) The system can store history of last 10 annunciations.
- (xxviii) 250 Addresses are divided into 12 Zone format. Zone can also use for floor wise.





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(xxix) In case of detection of fire exact location of Fire will be conveyed via SMS.

Viz. "Fire detected at SYSTEM ROOM, SBI (branch name) Branch".

(xxx) Provision GSM auto dialler.

(xxxi) This system has facility of wireless detectors ("Optional").

## **12. ELECTRONIC CABLES, WIRING & CONDUITING:**

All wires / cables to be used for the system shall confirm to the following as specified in BOQ:

- a) PVC insulated copper conductor cables confirming to and marked IS: 694: 1990 having minimum 1.5mm<sup>2</sup> cross-sectional areas or as specified in BOQ. If stranded at least 0.5mm<sup>2</sup> cross-sectional should be used.
- b) Armoured PVC / Rubber insulated cables confirming to and marked IS: 1554 (Part – I) 1988.

Joints in the cables shall necessarily be avoided. Where joints are unavoidable for qualified reasons all visible areas of the junction boxes shall be painted signal red.

The maximum number of wires that can be drawn in conduit shall be governed by the CPWD Specification for internal electrical works (Part-I).

Insulation on cable should not be lesser than one Mega Ohm when tested with a 500 Volts Megger for any particular section of the wiring.

## **13. INSTRUCTION MANUAL:**

The record engineering drawings and operating instructions shall be supplied by the installers on completion of the installation. Drawings shall clearly indicate, for maintenance and record purposes, the position of various items of the equipments, junction boxes, sizes and routes of all cables and wires and such other relevant details. If so desired by the user, circuit diagrams of fire alarm system and its components should also be supplied. These drawings and operating instructions shall be kept up to date and be available for convenient reference and shall be available for convenient reference and should be in the control room.

The installer shall supply the user with a logbook. The logbook shall be maintained for recording details, including causes of all the alarms (genuine, practice, test or false), faults, service tests and routine inspections, servicing/repairs, etc, as and when done. Periods of disconnection/in operation should also be shown.

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**MINIMUM TECHNICAL SPECIFICATION FOR CONVENTIONAL AUTOMATIC FIRE  
DETECTION AND ALARM SYSTEM (AFD&AS)**

Technical Specification for Fire Alarm System		
S.N.	Technical Specifications	Compliance Yes / No
1	2/4/8 zone Main Control Panel as per latest IS specifications (IS: 2189 & IS: 15908) with inbuilt GSM (with facility to dial at least 5 telephone numbers and voice message of at least 20 seconds) zone indicator and backup. UL listed panel will be preferable.	
2	The panel must be TCP/IP enabled and CMS compatible with IP module to connect online to a central station for alerts, manual alarm (eMCP), reset facility (optional), event logs (min. 500 logs)	
3	Provision for inbuilt auto dialer. With option to remotely change the numbers in the auto dialer from central site/ Administrator.	
4	Test report by the Regional Electronic Test Development Centers or BIS certification is mandatory for electronic fire alarm System	
5	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	
6	On fault i.e., open / short condition, buzzer must sound and indicator lamp (LED) glows. This audible alarm should be distinct from the Fire Alarm. Trouble reminder	
7	Panel should be compatible with all type of standard conventional detectors (min. 20 in each zone). Alarm activation by Flame detectors, Ionization Smoke Detector (ISD), Optical Smoke Detector (OSD), Heat Detector and other compatible sensors with provision of Response Indicator (RI), Manual Call Point with break glass arrangement (MCP) etc. All the smoke detectors shall conform to latest IS specifications and shall be compatible with conventional fire alarm system/panel	
8	All the wiring should be done using Fireproof Armored wiring/cables	
9	The control panel should have inbuilt keypad, Test facility, ON - OFF indicators, acknowledge button, where required cancel/reset/isolation button, related fuses. There must also be an option to connect external keypad for large branches.	
10	The panel must be 16 SWG - Powder coated. Cable glands should be provided, Suitable locking arrangement through Key/ Screws Space for placing the inbuilt back up batteries	

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11	Panel should have LED/LCD display for status of the system. All LED can be checked at once with Lamp test button.	
12	Sounder should be silenced by Acknowledge /Silence button.	
13	Fire/ Open/ Short/ Lamp Test/ Reset/ Alarm/ Evacuate Facility/ Zone Isolation Display	
14	Indication for mains on, battery on, system on, charging on, fire status, silence, battery low	
15	The system should have provision to Reset the complete system from Control Panel.	
16	The Panel should be easy to operate. Auto dialer should be easy to operate for updating the contact numbers	
17	Panel should have the feature of Master reset of settings and should be password protected.	
18	Built-in power supply arrangement with AC/DC ON, system ON visual indicators and auto switch over to internal back up in case of external power supply/ MAINS failure with auto switch over. The system must have deep discharge protection. The power backup must be rechargeable, sealed, maintenance free. Min. 24 Volts, 7 Ah.	
19	Zone isolation facility in case of continuous fault. Auto Isolation with self- activation on removable of fault. Manual Isolation and Manual disable through keypad.	
20	The system should be provided inbuilt with SMPS with spike/Transient reduction circuit, to avoid any False alarming in case of transient/abrupt Voltage fluctuations. Power consumption of less than 200 mA idle current and 1 –2 Amps on full activation.	
21	Aux. Relay for triggering external devices. Separate relays for fire & fault. Compatible with external relay card for connecting external devices, Air Conditioning turn-off relays and facilities for connecting Auto dialer, mot. sirens etc.	
22	Built-in Digital Ammeter (Battery Current), Digital Voltmeter (Main voltage & Battery Voltage)	

**Technical Specification for STANDALONE AUTO DIALERS**

S.N.	Technical Specifications	Compliance Yes / No
1	Standalone Auto Dialer must be compatible with 5G GSM/ PSTN connection of various leading Service Providers.	

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2	It should work with all types of existing alarm having port for connecting the auto dialer	
3	Standalone Auto dialers may be required for Currency Chests/selected high risk branches.	
4	Minimum 10 telephone numbers - non-volatile memory such that settings are saved	
5	Minimum 2 messages of 15-20 seconds duration, storage and recording facility.	
6	Call override and line take over facility.	
7	User friendly easy programming and simple operation.	
8	No false activation due to voltage fluctuation etc.	
9	Facility to cut off message delivery using a number code/master key.	
10	Message should be repeated at least twice before dialing the 2nd number. In case number not responded, facility to re-dial the number after completing the cycle.	
11	Should have message recording facility at local end (Branch end).	
12	In-built GSM auto-dialer should have the ability to generate SMS alerts in addition to auto-dialing the pre-fed numbers.	
13	Provide signal strength and status indication on display screen.	

Technical Specification for Wiring & Sensors			
S.N.	Item	Technical Specifications	Compliance Yes / No
1.	Multi Sensor Detector	1. Capable of Heat & Smoke - multi criteria sensor	
		2. low power consumption	
		3. LED detector status indicator	
		4. Programmable sensitivity	
		5. Certifications – UL/ LPCB/FM (As per IS 11360)	
2.	Optical Smoke Detector	1. Wide operating voltage 8 to 30VDC	
		2. Low power consumption Light Scattering or obscuration	
		3. LED detector status indicator. LED flashes in normal, illuminates in alarm & quite in fault	

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		4. Apollo 65 and its equivalent other makes as listed below.	
		5. Certifications - UL /LPCB/FM (As per IS 11360)	
3.	Heat Detector	1. Wide operating voltage 8 to 30VDC	
		2. Rate of Rise cum fixed temperature type.	
		3. Backward compatible with Series 100 Detector range of bases	
		4. LED detector status indicator	
		5. Programmable sensitivity	
		6. Range of detectors bases available	
		5. Certifications - UL / LPCB (As per IS 11360)	
4.	Manual Call point	1. Anti-Tamper facility.	
		2. Resettable type Manual Call Point	
		3. Enhanced aesthetics with front cover facility	
		4. Fully approved to the latest standards.	
		5. Certifications - UL / LPCB	
5.	Response Indicator	1. Fabricated from either spun aluminum or moulded PVC or MS 16 SWG	
		2. LED Indication	
		3. As per IS 2189-2008 or equivalent as per prevalent trade and practice, acceptable to the Bank.	
6.	Electronic Hooter	1. High sound output, low current consumption.	
		2. Range 500 to 1000 Hz. Sound level between 75 dB - 120 dB.	
		3. Min. 6 Watt (Dual tone) of Min 65 db output	
		4. Low profile, Surface and Waterproof mounting options.	
		5. Fabricated from either spun aluminum or moulded PVC.	
		6. Certifications - UL / LPCB/ ERTL/ BIS	
7.	Battery	1. 2X 12V 7Ah Rechargeable battery	
		2. Eco-Friendly	
		3. Ready-to-use, Low-self discharge, Maintenance Free	
8.	Armoured Cables	1. 2 core 1.5 sq mm armored cable	
		2. Armored & PVC Sheathed Cables Conforming to IS: 1554 (Part -I) 1976 or latest.	
		3. Fire Retardant Low Smoke	

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		4. Make: Finolex/ Plaza/ Polycab/ RR Cable/Havells or Eq.	
9.	Conduit	1. For MS Conduit Pipe - Size 25mm (IS-9537)	
		2. PVC Pipe (ISI Mark) - Size 25mm	

BEAM DETECTOR:			
S.N.	ITEM	Technical Specifications	Compliance Yes / No
1.	Operating Range	5 to 120 m	
2.	Operating Voltage Range	12 to 36V DC $\pm$ 10%	
3.	Operating Controller Current (with 1 or 2 Receivers)	14mA (constant)	
4.	Operating Transmitter Current	8mA (per Transmitter)	
5.	Power Down Reset Time	>20 Seconds	
6.	Fire and Fault Relay Contracts	VFCO 2A @ 30 Volts DC resistive	
7.	Operating Temp. (non-condensing): EN54	-10°C to 55°C	
8.	Optical Wavelength	850nm	
9.	Led Indicators: Control Unit	Red=Fire Amber=Fault Green=System OK	
10.	Receiver	Red=Fire Alignment LEDs for single persons alignment	
11.	IP Rating	IP54	
12.	Relative Humidity (non-condensing)	93%	
13.	Housing Material (Transmitter /Receiver /Controller)	UL94 V2 PC	
14.	Dimensions & Weight of Control Unit	203 x 124 x 71.5mm (W x H x D) 606 gms	
15.	Transmitter & Receiver	78 x 77 161mm (W x H x D) 207gms	

**Certified that:**

a) We have understood the technical specifications thoroughly and are acceptable to us.

SIGN & SEAL

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- b) If the work order in whole or part is placed with us, we would be able to supply the above mentioned equipment to the branches/offices of State Bank of India, across Kolkata Circle, within given time frame.
- c) Our company/firm already has an office in. Region with adequate infrastructure and technical manpower, which will remain functional till the end of warranty and AMC period.
- d) We understand that the specifications being offered by us as above are applicable to throughout the SBI Kolkata Circle.

**PLACE:**

**DATE:**

**Signature with Seal**



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**L. REQUIREMENTS FOR DETECTION ZONES THAT CONTAIN NON-ADDRESSABLE AUTOMATIC DETECTION SYSTEM ARE GIVEN BELOW:**

- a) Automatic fire detection and alarm system consists of smoke/heat/multi sensor detectors, sounder cum hooter/strobe and manual call points connected by appropriate cables to sector/zonal panels which in turn are connected to control and indicating equipment (C and I). The equipment and cables of automatic fire detection and alarm system should be independent of any other system or cables and should not be shared with any other system.
- b) If the requirement of detectors in any area is less than 20, division into zones/sectors may not be necessary. Similarly, sectorization may not be necessary if the number of zones is not very large and in case of bigger premises, the premises may be divided into wings and each wing may have sectors/zones.
- c) Size of the conventional panels is normally referred by number of zones. Each zone can be connected with the conventional detectors not exceeding 20.
- d) The floor area of a single zone shall not exceed 2000 m<sup>2</sup>.
- e) If the total area of a building is less than 300 m<sup>2</sup>, a zone can cover more than one floor.
- f) If the total area of a building is more than 300 m<sup>2</sup>, each zone shall be restricted to a single floor.
- g) The search distance, that is, the distance that must be travelled by anyone responding to a fire alarm signal after entry to the zone in order for the location of the fire to be determined visually, shall not exceed 30 m.
- h) Automatic fire detectors within any enclosed stairwell lift well or other enclosed shaft-like structures shall be considered as a separate zone.
- i) If manual call points are located on the landings of an enclosed staircase, such points at each level shall be incorporated within the zone that serves the adjacent accommodation on that level.
- j) The detectors and manual call points within sectors / zones shall be wired to the control and indicating equipment.
- k) The entire electrical installation pertaining to the entire fire alarm system as described above shall be independent of other systems.
- l) When a signal of fire is given, it is necessary that there shall be no confusion about the zone from which it is received.
- m) In larger premises, the fire alarm system shall be so designed and arranged that it is fully compatible with the emergency procedures and provides at some central or convenient point, or points, an indication of the zone from which an alarm has originated.

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- n) If the requirement of detectors or call points is less than 20 in any area, division of the area into zones is not necessary. Similarly, sectorization is not necessary if the number of zones is not very large.
- o) The zoning arrangement for systems in multiple occupations shall take into account the fact that all the premises may not be occupied at the same time. No zone shall include areas is more than one occupancy.
- p) Response indicator lamps outside doors of rooms, cabins, etc, within a zone may be useful, if doors are likely to be locked.

**M. GUIDELINES TO BE FOLLOWED FOR THE INSTALLATION OF AUTOMATIC FIRE DETECTION & ALARM SYSTEM:**

- a) The ***entire area of the branch including record/stationery room/Vault room/ Locker room/canteen, onsite ATM including backroom enclosure & ATM where CCTV access is present should be covered*** with the detectors as per its requirement.
- b) The ***equipment's and cables of Automatic Fire Detection & Alarm system (AFD&AS) should be independent of any other system*** or cables and should not be shared with any other system.
- c) The electric ***connection shall be provided to the system before the main switch through MCB and UPS.***
- d) The ***control panel of the system should be installed near the entry/exit*** of the Branch / office. The control panel may be fixed on the wall at the height of 1.2 meter, it should be easily approachable, and a key of the control panel may also be tagged with panel.
- e) If the detectors are providing under/over the false ceiling, the ***armored cable / wire should be clipped / hooked with the roof. The armored cable / wire should not be laid out over the false ceiling at any cost.***
- f) ***Circuits for the detectors and the manual call points (MCP) shall be different. MCP shall be fixed at a height of 1.4 meter above the floor level,*** at easily accessible, well illuminated and conspicuous positions, which are free of obstructions. It shall be located preferably near entry /exit / staircases.
- g) At the time of installation and prior to commissioning, ***every detector should be allotted an identification number*** (permanent marker) proceeded by alphabetic initials. For example, Z1/SDI/8 means zone -1, Ionization detector, 8<sup>th</sup> detector or Z2/SDO/5 means zone-2, optical detector, 5<sup>th</sup> detector or Z3/DHT/4 means zone- 3, heat detector and 4<sup>th</sup> detector.
- h) Under the flat ceilings and ceiling height up 4/5 meter, the ***spacing between the detectors should not be more than 5 to 7 meter*** in a protected area.



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- i) Detectors shall not mount within **50cm of any walls, partitions or obstructions.**
- j) Detectors shall not be mounted within **01meter of any air inlet or a forced ventilation system.**
- k) Detectors should always be mounted on the ceiling only and shall be placed on the protected side of the premises on the ceiling **1.5 meter from any door, window or any opening** in the wall partitions.
- l) Detector sitting shall be such that a **clear space of 50cm is maintained below** each detector.
- m) Auto dialer should be **programmed with minimum 5 mobile numbers among the branch functionary including branch manager and must be working 24x7hrs** with the fire alarm panel. The power supply of Auto dialer shall be given from fire control panel only, if it is not inbuilt in the control panel.
- n) After installation of the system, **a demonstration regarding mode of operation of the system should be conducted in the branch/office before the branch functionary.** The function of automatic fire detection & alarm system along with auto dialer should be known to the users and the nearby fire station mobile number/phone number may also be connected with system. The fire station should also be informed regarding the function of captioned system in case of any emergency.
  - a) **Note: - Note: - in case of any query in this regard you may seek clarification from Fire Officer (-9674703101 / 9674742101 / 7351377927 / 8141269292 / 9308808184 / 9304158134), Local Head Office, Kolkata.**

**N. TERMS AND CONDITIONS FOR NEW INSTALLATION**

1. You shall, under no circumstances, be allowed any enhancement of rates for **36-Months** with effect from **issuance of work order and execution of agreement.** The rates accepted are all inclusive, final, rates and no extra or additional charges other than the ones quoted in the respective tenders shall be allowed. Relevant proof of clearance of obligatory dues i.e. GST etc shall be furnished by you. It is also made clear that you completely indemnify the Bank against such dues and / or any claims made by any statutory authority subsequently, and to settle all such claims shall remain your responsibility.
2. **Warranty / Guarantee** shall be a comprehensive one of free replacement of any failed components in the system, including insulator or conductor failure in the cables. Except in cases of misuse, relocation, accidents or sabotage and replacement of batteries (**beyond their warranty**) for the battery back-up. *The warranty shall also entail free, on-site, preventive maintenance of the system* at quarterly intervals as per maintenance schedule given separately. There shall be no let or relief on this account. A proper record of all such maintenance work duly authenticated by the Branch shall be kept by you and a copy of the same shall be submitted to the Fire Officer for his record.



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3. The system should have an inherent likability to an auto-dialer system and a power shut down switch through MCB.
4. The batteries shall be covered by a separate warranty, which in no case shall be less than the one issued by the concerned manufacturer. **Notwithstanding any-other provision the replacement of Batteries after expiry of their own warranty shall be paid for by the Bank.**
5. This work order pertains to all aspects of Supply, Installation, on-site Testing and Commissioning of the whole system and includes the cost of all the accessories required.
6. The system should be installed in conformity with IS: 2189-2008 and various codes of practices listed therein.
7. All cables/wires, detectors should be properly anchored. The wiring for the system should be so spaced as to not cause any electrical interference in the data cables, this aspect shall be tested and confirmed by the contractor during the progress of the work. Whenever the data cables have to be crossed as far as possible the pattern of the other electrical wiring shall be followed.
8. The battery back-up pack should be powered by long life sealed, maintenance free batteries as specified above, which are chargeable and are constantly fed with charging current through the panel.
9. The panel must be weather, vermin and water- proof and conform to the specifications laid down by IS: 2189-2008. The relevant test certificate must be enclosed.
10. *A detailed schematic diagram of the whole system and cabling / wiring shall have to be handed over to the branch for its record.*
11. The cabling / wiring should be tagged with colour coded and which shall remain uniform throughout the Branch for the ease of subsequent identification and maintenance work, the marking shall be a band of fire red colour paint on the cable at one meter spacing, it shall also be an aid to measuring the length of cable used.
12. The **Security Deposit** to ensure the performance of the contractor, shall be as detailed above. This deposit shall be held in the form of Demand Draft (DD) for the like amount, for the period of warranty plus AMC of 03 years minimum from the date of commissioning of the system, at the P&E Deptt, at LHO. The Successful bidders/tenderers have to submit Bank Guarantee/Security Deposit noninterest bearing amount 2 % of Work order value (refundable) from a scheduled bank other than State bank of India. The amount shall stand released to the contractor at the end of the said term, if no bar is placed on such release, in writing, by the monitoring authority of the contract. **On the grounds of proven deficiencies, inability or unwillingness in fulfilling the contractual obligations. *In case of any serious deficiency by the contractor in fulfilling the contractual obligations, the Bank shall have the right to forfeit the said deposit either fully or partly, as it deems reasonable.***



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13. During the currency of the **warranty and annual maintenance contract, any number of fault complaints shall have to be attended-to, free of charge. It is to be noted well that any such complaint has to be attended within the timeframe laid down i.e. within 24 hrs. Failure on this score may invite penal action.**
14. The provisions of clause 12 above shall not apply only when the branch declines permission for, or delays, such repair work at its discretion within the contractually stipulated time limit. In such cases, the vendor's representative should immediately inform the P&E Department, at LHO Kolkata.
15. The initial maintenance during the warranty period of the system as well as the battery (which is covered by its separate warranty) **will be free of charge and shall include free replacement of any / all failed components / spares, with regular quarterly visits to carry out maintenance of the system, as per the enclosed schedule** and scope of work.
16. You shall give the list of the dates of manufacture of all ionization detectors in the branch to the monitoring authority i.e. the P&E Deptt. So as to cater for their replacement at the end of their ten year's life.
17. You shall be responsible for removal and proper disposal of the detectors which contain Radio-Active material at the end of their 10 years' life, in an environment friendly way and furnish a certificate to the Branch regarding the proper disposal of the detectors. It should be clearly understood by you that the Bank is not obliged to procure replacements of such detectors from you.
18. **You shall have to ensure that the system does not remain non-functional for more than 24 working hours from the time of reporting of fault. Deviations on this score shall invite penal actions / deduction as listed.**
19. The Branch shall extend all co-operations to facilitate the smooth execution of this contract. Any work which is not in the scope of this contract i.e. work required for concealing the cables etc if deemed necessary by the Branch, may be arranged by the Branch at its own cost. Any difficulty faced by the contractor in execution of this contract shall be brought to the notice of the Fire Officer without any delay.
20. The PVC insulated armored cable should conform to I.S.:1554-1976 Part-I.
21. A sample of all the components to be used should be provided by the contractor to the P&E Deptt. As well as kept at the sight for comparison/verification.
22. The Bank shall be at liberty to change the method and specification of the work within the limits of the rates quoted.
23. In partial modification under the head relevant clause of EOI Settlement of Dispute, the court of jurisdiction will be Kolkata.
24. You shall have to co-ordinate and co-operate with the other people who are working at the site.





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25. You shall have to complete the assigned work within 15 days from the date of receipt of firm order and handing over of clear site with unstinted access. **A penalty of 2% of the cost of the work shall be imposed for every additional week beyond the 14 days period mentioned above if the delay is caused by any acts of omission / commission by you. Such penalty shall be limited to 5% of the amount of the concerned work order.** In the event this limit is breached the Bank reserves the right to cancel the whole contract and forfeit the EMD.
26. You shall make necessary arrangements to acquire insurance cover against fire, damage, accidents, injury to workman etc. The acceptance of this work-order by the contractor shall automatically indemnify the Bank against any claim pertaining to or arising out of the said work.
27. In case, the approved series detectors are not available, detectors of comparable quality with UL/BS/CE/FM certification should be provided at a cost which shall be negotiated at that point of time.
28. The drawings, survey reports and other documents created for this project by the vendors/firms shall become Bank's property on submission to the Bank and the vendor shall no right or claim on them save for the purpose of reference for the project work.
29. **Notwithstanding any condition stipulated above, the Bank shall have the right to instantly revoke / cancel the said contract, partially or fully, with or without forfeiture of the Performance Guarantee Deposit; on the grounds of proven deficiencies, inability or unwillingness in fulfilling the contractual obligations; as the Bank deems fit and reasonable. Further, the Bank reserves the right to terminate/cancel the contract at its sole discretion with liability to pay only for the equipment supplied and installed at its offices.**
30. **Initial Installation Inspection Tests**
- a) After installation, a visual inspection of all the detectors should be made to make sure that they are properly sited. Each detector should be inspected to ensure that it is properly mounted and connected.
  - b) Restorable heat detectors and restorable elements of combination detectors should be tested by a heat source, such as a hair dryer, or a shielded heat lamp until it responds, making sure that the sensing element is not damaged. After each heat test, the detector should be reset. Precautions should be taken to avoid damage of the non-restorable fixed temperature element of a combination rate of rise/fixed temperature detector.
  - c) Non-resettable fixed temperature heat detectors which are not to be heat-tested should be tested mechanically or electrically for fire alarm function.
  - d) Heat detectors with replaceable fusible alloy element should be tested first by removing the element to see whether contact operate properly and then reinserting them in proper position.





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- e) In periodic testing, heat detectors should be visually examined for damage or other conditions (such as heavy coats of paints, etc) likely to interfere with the correct operation.
- f) Each smoke detector should be tested to initiate an alarm at its installed location with smoke or other approved aerosol which demonstrates that the smoke can enter the chamber and initiate an alarm.
- g) In order to ensure that each smoke detector is within its sensitivity range, it should be tested using either:
  - a) A calibrated test method, or
  - b) A manufacturer's/supplier's approved calibrated sensitivity test instrument, or approved control equipment arranged for the purpose, or other approved calibrated sensitivity test method.
- h) Detectors found to have sensitivity outside the approved range should be replaced.

***NOTE - Detector sensitivity cannot be tested or measured using any spray/smoke producing device that administers an unmeasured concentration of aerosols / smoke into the detector.***

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**ANNEXURE- 'A'**

**INSTALLATION CERTIFICATE**

1. It is certified that the Automatic Fire Detection & Alarm system (AFD&AS) installed in .....Branch (Code No.....), under region....., Administrative Office .....
2. The system is installed as per State Bank of India, Local Head Office, tendering terms & conditions. All the items of the system are as per quotation no. ....dated ..... have been installed in the branch and physically verified by the Branch Manager and working satisfactorily.
3. The control panel of the AFD&AS is directly connected main electrical supply through MCB; auto dialer is connected with the telephone line, and important 05 telephone numbers are programmed.
4. Working and mode of operation of the AFD&AS has been explained to the following staff members by Sri ..... of M/S. ...., including the Branch Manager, Accountant, System Room in charge, Cash Officer, Guard (If posted) etc.

S. NO.	Name	Designation	Signatures
1.		BM	
2.			

*It is also certified that the power supply to the AFD&AS has been connected through the branch UPS system for secondary power back up.*

Signature

(NAME.....)

M/S.....

Countersigned by  
Branch Manager (With Seal)



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**O. TERMS & CONDITIONS FOR COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (AMC), MAINTENANCE SCHEDULE AND SCOPE OF WORK FOR AUTOMATIC FIRE DETECTION & ALARM SYSTEM'S (AFD&AS):**

1. **Validity of Contract Period:** The AMC shall be valid for 03-Years with effect from issuance of work order and execution of agreement.
2. **Mandatory Visits:** *Four visits in a year at an interval of 03 months with 15 days grace period of time. Non-compliance of the mandatory visit schedule by the vendor will invite penal action which would be termination of the contract agreement. No extra charges will be paid for emergency visit/visits during the contract.*
3. Representative (trained technician) to carry out maintenance as per given schedule and scope of work. Any failure on this aspect shall invite penal action. A copy of the said report shall be duly signed by the Branch Manager as a record of orderly progress of the contract.
4. Representative (trained technician) of the firm should arrange to visit branches/offices during working hours and will carry firm's issued identity card in original, a copy of AMC allotment letter.
5. **The said contract shall be an all-inclusive contract and shall entail free repair / replacement of any / all defective / failed components of the system including cable faults. No charges other than the stipulated Annual Maintenance Charges shall be payable by the Bank on any account.**
6. This clause shall apply to **pre** and **post** warranty as well as **free** and **paid** maintenance work. The vendor shall have to maintain the system for a total period of 05 years from the date of commissioning of the system, by entering into a **paid** maintenance contract, **post warranty period**, with the Branch for the above said period, in the first instance.
7. This Maintenance Contract shall be an all-inclusive contract and **entail free replacement of any / all failed components / spares during its currency, except the replacement of detectors at the end of their normal, useful life of 10 years. Such replacement may be arranged by the Bank at its discretion either through the existing vendor or by floating a fresh tender at the material time.**
8. The AMC charges of amount **Rs. -----/-** shall be payable **on a pro- rata basis at half-yearly intervals** at the completion of the concerned half year. The Bank reserves the right to cancel this contract by giving one month's notice in writing, in such cases, charges due till the effective date of cancellation shall be paid.
9. The vendor will have the maintenance bills endorsed by the respective Branch Managers along with visit reports and submit to the Fire Officer for their verification and scrutiny. **The bills of all the branches will be centrally paid by the respective Regional Office.**
10. 50% of AMC charges i.e. **Rs. .... /-** will be released after Second Visit and remaining will be released after the Forth visit.

**11. SCOPE OF WORK:**



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- a) Checking and testing the general operating state of panel(s) in normal and during power supply failure and removal of any defect if found.
- b) Checking and testing the operational, readiness, during mains supply/failure and testing of battery for charged condition.
- c) Performance checks of external hooters, visual alarm (s) of panel(s), manual call point's station, and response indicator(s).
- d) Cleaning and testing of each and every detector at all floors. Cleaning and testing of the detectors should be done so that the detectors should be cleaned **ONCE IN EVERY QUARTER**. The test should be carried out by means of giving minimum smoke to the smoke detectors. For heat detectors minimum temperature should be applied.
- e) Servicing and testing of manual call points for each Zone.
- f) Performance checks of all Smoke/Heat detectors.
- g) Performance check of open & short circuit conditions resulting in a faulty alarm indicating in the panel.
- h) Checking/testing of main control panel, and all the hooters along with testing of all the repeat functions of fire signal and fault signal on various floors of the building and ensuring the same to be in proper working condition.
- i) Ensuring that the required power supply (AC/DC) always exists in the system.
- j) Wherever there is confined space in the location of the system (viz. MCP, LCP'S & Junction boxes) these areas shall be kept free from all foreign materials.
- k) While opening the detector from the base, the signal "open" should be shown simultaneously in Local Control Panel & Main Control Panel.
- l) If there is any short circuit in detector line, the signal should be shown simultaneously in Local Control Panel & main control panel. If any defects are noticed during the periodical maintenance service, these will be rectified immediately and will also be brought to the notice of the Bank for rectification.
- m) Checking up all the wirings.
- n) Lamp(s) testing to be carried out of all panel(s).
- o) Logbook/Security Register should be maintained and the date & working of the system will be recorded. Any incident of fire or fault shall be recorded by our personnel, and we shall fill up the remarks column after job has been attended by the vendor. This will ensure that over a period of years, complete feedback is available. These entries will be countersigned by the vendor or/and by the department.
- p) Any defects found while carrying out maintenance/testing of the system should be immediately brought to the notice of the concerned Branch Manager or person deputed for this purpose. The vendor will ensure that it replaces defective/damaged part (s)



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only after obtaining concurrence from the Branch Manager. The Branch Manager will invariably keep the Controller as well as the Fire Officer informed.

12. During the term of this agreement, the vendor shall maintain the equipment in good working condition. On receipt of information from the branches/offices the vendor shall respond as per given time frame:

**a. Kolkata, Bidhannagar, Howrah, Siliguri, South 24 Pgs,& Durgapur area within 24 hours to Max 48 hours. Sikkim within 24 hrs to 72 hrs and Bay Islands area within 24 to 96 hrs.**

13. Two copies of visit report will be prepared after testing/maintenance of the system by the authorized technician of the company. The Branch Manager/Authorized officials will be stamped and countersign all reports after satisfying themselves that the system is fully functional.

- a) **One copy will be handed over to the branch,**
- b) **Second copy to be retained by the vendor,**
- c) **Third copy shall be sent to Fire Officer, P&E Department at Local Head Office, Kolkata.**
- d) **Scanned Copy should be shared to Zonal Fire Officers in their respective mail IDs.**

14. **Monthly & Quarterly report of Work done as per format shared to respective AO Fire Officer & LHO Fire Officer as per the format prepared and shared by Bank.**

15. The vendor or its employees undertaking the work to maintain total and complete secrecy and assure not to communicate or allow to be communicated to any person or divulge in any matter/information relating to the ideas, concepts, know-how, techniques, data, facts, figures, and all information what so ever concerning, relating to the bank and its affairs to which the employees have the access.

16. The repairs / servicing of the system / equipment's shall be done as per the guidelines of the respective manuals of the manufacturers.

17. The spare parts used for the repair / servicing of the whole detection system shall be of the original make of the plant & system. Any damage caused to the plant / system due to the use of spurious parts etc. shall be recovered from the Vendor if at all used as recommended by the vendor or its representatives. In case the spare parts / components / accessories are supplied for any repair / servicing of the system / equipment, they shall be got checked by the Branch Manager and after his satisfaction / approval, the spare parts should be used for repair / replacement / servicing.

18. All the works under the AMC to be attended by Qualified Technical / Engineer by the vendor.



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19. All disputes arising out of or connected with this contract shall be deemed to have arisen in Kolkata City only, under the jurisdiction of the courts of Kolkata.
20. In case the Fire Alarm system requires major repairs, the vendor shall provide a replacement before taking the defective system for repairs. If any part of the system requires to be changed, rates applied shall be as per Bank's Approved rates.
21. If any Fire Alarm System needs repair from different OEM, then Fire Officer may allow other empanelled vendor to complete the work if existing vendor is not able to do the work.
22. AMC / SERVICING SLIP: Vendors / Firms must maintain a record in their book of records wherein schedule for AMC Visit as mentioned below and accordingly performed the work of Servicing / Maintenance within the due date and paste a service slip / tag (Bin Card inside transparent plastic cover) at the Fire Alarm Control Panel body, as sample given below and ensure service / maintenance slip should be with good quality of adhesive if pasted on the body.

<b>ANNUAL MAINTENANCE CONTRACT (AMC) SLIP</b>			
Vendor / Firm Address:			
Model/Make			
Zone		Two / Four / Six / Eight	
Auto Dialer		Available / Not Available	
Date of New Supply/Installation			
<b>DETAILS OF VISIT UNDER AMC</b>		<b>Remarks</b>	<b>Signature</b>
First AMC Visit Date			
Second AMC Visit Date			
Third AMC Visit Date			
Fourth AMC Visit Date			
<b>ON CALL VISIT DETAILS</b>			
First Visit Date			
Second Visit Date			
Third Visit Date			
<b>ZONE MARKING</b>		<b>AREA COVERED</b>	
ZONE NO-1			
ZONE NO-2			
ZONE NO-3			
ZONE NO-4			



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Manual of Operation of the Control Panel for the occupants to be also pasted at there, in case of Bin-card may be available on backside.

**23. MODE OF PAYMENT:**

- a) The vendor will have the maintenance bills endorsed by the respective Branch Managers along with the service certificates (as annexure-B) duly certified by Branch Manager and submit the same to the Fire Officer, Administrative Office or Fire Officer, LHO (in case of absence of AO Fire Officer) for scrutiny and verification and forwarded to the concerned Region for payment. The bills of all the branches will be centrally paid by the respective Regional Business Office.
- b) 50% of AMC charges will be released by the Branch/Office after first visit and remaining 50% will be released after the Forth visit.

**24. PENALTY CLAUSE:**

- a) If the complaint is not satisfactorily attended within the stipulated time period of 48 hours, the Bank will levy a **penalty of 100/- per day for each instance of delay up to 15 days and** beyond 15 days penalty will be levied of amount twice the amount of AMC charges applicable for the branch/office. This will cater for penalty for the delay in services of maintenance period of the equipment at the branches/offices. The same shall be deducted from the AMC amount as applicable.
- b) In case of repeated complaints from the branches, the vendor's services may be discontinued, and the Bank may also delist him from the panel and/or blacklist the company from the bank.
- c) If observed during Fire Audit by Fire auditor regarding non-compliance, Bank Fire officer may impose penalty accordingly.

**P. OTHER IMPORTANT TERMS & CONDITIONS**

- 1) **BANK'S RIGHT TO ISSUE CLARIFICATIONS, ADDENDUMS, CORRIGENDUM ETC:** Bank can at any time issue clarifications, addendums or corrigendum. The same will be published in the Bank's website only; no separate notice will be published on any other media. The applicants are requested to regularly visit the Bank's website.
- 2) **PURCHASE THROUGH GEM PORTAL (GOVERNMENT E-MARKET):** Bank reserves the right to purchase the equipment through GEM portal of Govt. of India and provide the same to the Agency for Supply, installation and commissioning in the required branch. However, cost of any material / component provided by you for installation and commissioning of the equipment would be paid to you as per approved rates, including installation charges.





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- 3) **GUARANTEES:** The AFD&AS including all components delivered to the Bank should be brand new and as per approved brand & model. The supplier should also guarantee that maintenance to be carried out as per BIS 2189:2008.
- 4) **AVAILABILITY OF SPARES:** Spares for the product offered should be available for at least 05 years.
- 5) **WARRANTY:** The offer must include comprehensive on-site warranty of 01- year for the whole system components from the date of installation and commissioning of the equipment. Service Provider shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of all equipment, accessories, etc., covered by the offer. The supplier must warrant all equipment, accessories, spare parts etc., against any manufacturing defects during the warranty period. During the maintenance contract period the Service Provider shall depute their representative for maintenance of the system.
- 6) **MAINTENANCE STANDARD EXPECTED DURING WARRANTY:** The supplier should ensure that in case the equipment cannot be repaired within the stipulated period, the supplier should provide a replacement till the equipment is returned duly repaired.
- 7) **RECORDS:** As per requirement of the Bank / Branch, if request is made by the Bank / Branch to the vendor for providing details of all system components branch-wise with date of installation and due date of servicing, the vendor would make arrangements to provide the details.
- 8) **FALL CLAUSE:** At any point of time if it is observed that the vendor is supplying to other financial institutions / firms' similar material / services at lower rates than offered to Bank, then the vendor shall have to compensate the Bank by paying the difference amount and downward revise the rate of respective item / services at the time of renewal of contract as applicable.
- 9) **EXCEPTIONAL LOW RATE:** The bidder shall avoid quoting exceptional low rate for any given individual item in the price bid. Otherwise, the bidder must justify the rate to the tender committee. If the justification is not considered reasonable to the committee, then the bank may reject the bid as well as disqualify the bidder and subsequently, the bidder will not be allowed to participate in the bank's further tender for the next two years.
- 10) **SPARE COMPONENTS DURING MAINTENANCE:** The vendor/firm should ensure that sufficient numbers of system components are being available in the branch/office whenever they take away system components for repair. In case sufficient system components are not available in the branch/office then vendor/firm should place spare system components of deficient type.
- 11) **MANUFACTURING DATE OF NEW AFD&AS SYSTEM:** The vendor/firms should ensure that the newly installed AFD&AS should be of approved make and its



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manufacturing date should not be older than six months from the date of supply to the bank.

**12) GUIDELINES FOR THE OEM:** OEM should have online dedicated support center available during working hours and a fully equipped repair and maintenance office in India. Document details to be submitted for the same for verification.

- a) OEM should have valid relevant certification.
- b) Documents of Manufacturing license/ Excise Registration of the OEM factory need to be submitted for verification.
- c) A virtual tour & technical presentation of the company should be demonstration and submitted.
- d) Product Certification copies to be attached as per the specifications.
- e) Vendor will be responsible for non-genuine products. Audit for Banks whether actual material is provided or not needs to be done by OEM, as and when required by Bank, without any additional cost, as a service support to Bank.
- f) OEM to have presence in India since Last 10 years.



STATE BANK OF INDIA, PREMISES & ESTATE DEPARTMENT,  
LOCAL HEAD OFFICE, KOLKATA

[To be submitted by Vendor on letter head]

Ref, No.

Date:

To,  
The Assistant General Manager (P&E)  
State Bank of India,  
9<sup>th</sup> Floor, 'B' Block, Samriddhi Bhawan  
SBI, Local Head Office,  
1, Strand Road,  
Kolkata - 700001  
E mail - [agmpre.lhokol@sbi.co.in](mailto:agmpre.lhokol@sbi.co.in)

Dear Sir,

**APPLICATION FOR EMPANELMENT OF CONTRACTORS / FIRMS / COMPANIES FOR THE SUPPLY, INSTALLATION, COMMISSIONING, MAINTENANCE AND REPAIR OF AUTOMATIC FIRE DETECTION & ALARM SYSTEM (AFD&AS) FOR VARIOUS BRANCHES/OFFICES OF STATE BANK OF INDIA IN THE STATE OF WEST BENGAL, SIKKIM AND BAY ISLANDS.**

With reference to your advertisement for captioned work, we submit herewith our **application form for expression of interest with required list of enclosures** duly filled, signed and sealed by the authorized signatory of our organization, on the standard format along with **refundable processing/participation fees of Rs.100000/-** as participation fees.

2. I/We have read and understood the Press notice, Empanelment Notice & this Application form along with all Annexure and my/our firm fulfills the **Eligibility Criteria** as described in the notice.
3. I/We are agreeable to the terms and conditions enumerated in the advertisement and to submit in case of our being empanelled, a Security Deposit in the form of DD/ Banker's Cheque of amounting to 2% of total work order value in favor of the State Bank of India, payable at Kolkata.
4. I/We hereby confirm that all information, particulars, copies of certificates and testimonials in connection with my above-mentioned empanelment of AFD&AS vendor, for supply, installation and maintenance of AFD&AS are correct and genuine. I/ we, am /are, therefore liable to face the appropriate actions as deemed fit by the Bank in the event of any of the information, particulars, copies of certificates and testimonial is not found correct / genuine or not attached as required documents.
5. I / We undertake to produce the original of all the papers / documents attached herewith and assist the Bank authorities for the purpose of empanelment and verification.



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6. I/We hereby confirm and certify that the information given above is correct and true and the enclosures annexed herewith are genuine to the best of my / our knowledge.
7. I/We are authorized to sign and submit these documents for Empanelment.
8. I /We understand that if at any stage it is found / noticed by the Bank that any information thus provided by us is untrue / incorrect partly or fully and in case of receipt of adverse / unsatisfactory report from other clients / Bankers, the Bank may not consider our application and / or may de-list us and / or may take any appropriate action against us.
9. I /We also understand that partly / wrongly filled application and / or applications not on prescribed pro-forma and / or applications not accompanying relevant documents / enclosures / annexure are liable to be summarily rejected by the Bank.
10. I/ We confirm that all the Rules prevailing in the state, the Labour Laws, Risk Insurance obligations, State & Central Government statutory requirements are complied by us.
11. I / We understand that this is merely an application & does not entitle us to be necessarily empanelled by the Bank and Bank reserves the right to reject all and / or any application without assigning any reason whatsoever.

Yours faithfully,

SEAL OF THE FIRM

PLACE:

DATE:

(SIGNATURE OF AUTHORIZED SIGNATORY)

NAME:



STATE BANK OF INDIA, PREMISES & ESTATE DEPARTMENT,  
LOCAL HEAD OFFICE, KOLKATA

**FORM-1**

**APPLICATION FOR EXPRESSION OF INTEREST FOR AUTOMATIC FIRE DETECTION  
& ALARM SYSTEM (AFD&AS) OF SBI, KOLKATA CIRCLE**

S. No.	Subject	Details			
1.	Name of Organization				
2.	Constitution	Proprietary / Partnership / HUF / Private Limited / Public Limited. [Enclose a copy Certificate of Registration / Partnership deed].			
3.	Year of Establishment	[NB: Date of Commencement of Business [in case of Company]			
4.	Details of Key/Senior Officials/Directors /Technical Officer (Enclose Biodata)	Name	Designation	Qualifications	Experience
5.	Number of Offices In India	[Enclose complete list]			
6.	Registered / Head Office Address with details	Address			
		Mobile			
		Phone			
		Fax			
		Email			
7.	Local Address With details and documentary evidence	Address			
		Mobile			
		Phone			
		Fax			
		Email			
8.	Contact Details for Correspondences	Name			
		Designation			
		Address			
		Mobile			
		Phone			

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		Fax			
		Email			
9.	Whether Registered / empanelled any Organization / public body (Enclose documentary Proof)	Name of Organizations	Since when		
10.	Service Support In West Bengal, Sikkim and Bay Islands.	Please furnish complete details of offices [Address and contact details like Mobile, Land line Phone, Fax, Email] with number of support engineers located in West Bengal. Whether having offices at one of the undernoted locations?			
		Locations	Office Available? (Yes / No)	No. of Support Engineers	
		Kolkata			
		Durgapur/Bardhaman			
		Siliguri			
		South 24 Parganas			
		Bidhannagar			
		Bay Islands			
		Nadia			
		Medinipur			
		Murshidabad			
		Sikkim			
11.	GSTs Registration No.	[Please enclose a certified copy of latest certificate]			
12.	PAN [Permanent Account Number]	[Please enclose a certified copy of latest income tax clearance certificate/Return filed/Assessment Order]			
13.	Whether last two years IT returns filed	(Enclose certified copies of the I T return of 2022-23, 2023-24, 2024-25)			
14.	Service Tax Registration No.	[Please enclose copy of Registration Certificate]			
15.	Financial details (Please enclose copies of Audited Profit and Loss and Balance	[Rs. In cores] As at close of business as on			
			31/03/2023	31/03/2024	31/03/2025
		Turnover / Sales			
		Other Income			

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	Sheet along with Auditor's Note)	Profit before Tax					
		Profit after Tax					
		Capital & Reserves					
16.	Latest Solvency Certificate worth Rs. 50 Lakhs from a Scheduled Bank	a) Account Number: b) Name of the bank: c) Branch address: d) Tel. numbers (with STD code): e) Fax: f) Email ID:					
17.	List of Clients whose work has been undertaken During last two years.	<b>[Please enclose as per format relevant order copy/contract copy and satisfactory performance cum installation cum completion certificate from the customers]</b> As per format					
18.	Associate Firms / Companies with details of activity and turnover	Name of Firm	Activity	Annual Turnover			
19.	Dealing with SBI	Enclose order copies and installation certificates the satisfactory performance certificate has to be from the authority which originally empanelled the vendor.					
20.	Installations at Public Sector Banks / Entity	Please enclose order copies / contract copies and installation cum satisfactory performance certificate from Public Sector Bank.					
21.	Details of major works executed & completed during last 05 years.	enclose copies of work order and its completion certificates					
22.	Details of major works on hand	enclose copies of LOI /work order / agreement					
23.	Details of Key Personnel Permanently employed.	List enclosed					
24.	List of Office Equipments owned by the firm (Enclose separate sheet, if required)						





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25.	Declaration Regarding Near Relative Working in SBI.	
26.	Mention Any Litigation / Arbitration Case Pending Against the Firm	Attach a separate sheet if required.

27.	Have You Been Blacklisted by Any Organization in The Past, If Yes, Furnish Details	
28.	Whether the Applicant is Willing to Maintain / Repair the Existing Automatic Fire Detection Alarm System And its Accessories	Yes / No

***Note: Please enclose separate sheets in same format for additional information, photographs, and documents. Please enclose all the Annexure with relevant supporting documents.***



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**Declaration:**

I/We have read and understood the empanelment notice inviting tender & this application form along with all Annexure and certify that my/our firm full fills the eligibility criteria for empanelment described in empanelment notice.

I/We hereby confirm and certify that the information given above is correct and true and the enclosures annexed herewith are genuine to the best of my / our knowledge.

I/We are authorized to sign and submit these documents for empanelment.

I /We understand that if at any stage it is found / noticed by the Bank that any information thus provided by us is untrue / incorrect partly or fully and in case of receipt of adverse / unsatisfactory report from other clients / Bankers, the Bank may not consider our application and / or may de-list us and / or may take any appropriate action against us.

I /We also understand that partly / wrongly filled application and / or applications not on prescribed pro-forma and / or applications not accompanying relevant documents / enclosures / annexure are liable to be summarily rejected by the Bank.

I / We understand that this is merely an application & does not entitles us to be necessarily pre-qualified by the Bank and Bank reserves the right to reject all and / or any application without assigning any reason whatsoever.

PLACE:

SIGNATURE/ NAME:

DATE:



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**INDICATIVE CHECK LIST OF ENCLOSURES**

S. NO.	PARTICULARS	ENCLOSED? YES / NO
1.	Copy of Registration/Partnership Deed in support of constitution	
2.	List of Office locations within India	
3.	Documentary evidence in support of Registration/empanelment with any Organization/Public Body	
4.	Service Support in West Bengal, Sikkim & Bay Islands	
5.	GSTs, Certified copy of latest clearance certificate.	
6.	Copy of PAN letter issued by Income Tax. Certified copy of latest income tax clearance certificate/Return filed/Assessment Order/Aadhar card details	
7.	Copy of Service Tax Registration number	
8.	Last two years copies of Audited Profit and Loss and Balance Sheet along with Auditor's Note	
9.	Latest Solvency Certificate	
10.	List of Clients/work executed with details required above, during last 3 years along with order copy/contract copy and installation certificate/ certificate of successful work cum satisfactory performance, from customers	
11.	Order copy/contract copy and installation certificate/ certificate of successful work from Public Sector Bank/Entity in support of installation.	
12.	Copies of certification, if any	
13.	List of technical staff/engineers	
14.	Copy of ISO Certification if any	
15.	Technical specifications/Brochure of the product(s) offered.	
16.	Experience certificate	
17.	A valid direct authorized dealer certificate from OEM	
18.	Back-to-back support certificates form OEM	
19.	An affidavit on a stamp paper duly attested by Notary etc.	

Place:

Date:

Authorized Signatory

With seal of the company/Firm



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**LIST OF CLIENTS/WORK EXECUTED WITH DETAILS REQUIRED ABOVE, DURING  
LAST 5 YEARS ALONG WITH ORDER COPY/CONTRACT COPY AND INSTALLATION  
CERTIFICATE/ CERTIFICATE OF SUCCESSFUL WORK CUM SATISFACTORY  
PERFORMANCE, FROM CUSTOMERS**

S. No.	Client Name and work location Address	Contact Person	Tele No & email	Name of work	Amount of work undertaken	Start Date	Completion Date	Remarks
1.								
2.								
3.								
4.								
5.								
6.								

**[Please enclose as per format relevant order copy/contract copy and satisfactory performance cum installation cum completion certificate from the customers]**



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**ANNEXURE 'B'**

**DECLARATION OF NEAR RELATIVES OF SBI EMPLOYEES**

**[Crossed with double diagonally line, which one is not applicable]**

**If having near relatives**

I,/We.....  
.....S/O,D/O,W/O.....  
.....residing at.....hereby certify  
that one or more of our near relative(s) as defined in the pre-qualification notice is/are  
employed in the State Bank of India,  
whose details are as under:

S. No.	Employee No. / PF No	Name	Age	Male/Female	Branch/Office

In case at any stage, it is found that the information given by me/ us is false/incorrect, State Bank of India shall have the absolute right to take any action as deemed fit, without any prior intimation to me.

**If not having near relatives**



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I,/We.....  
.....S/O,D/O,W/O.....  
.....residing at.....hereby certify  
that none of our near relative(s) as defined in the pre-qualification notice is/are employed in  
the State Bank of India. In case at any stage, it is found that the information given by me/ us  
is false/incorrect, State Bank of India shall have the absolute right to take any action as  
deemed fit, without any prior intimation to me.

\*\*\*The near relatives are members of Hindu Undivided family/husband and wife/the one  
related to the other in the manner as father, mother, son(s) and son's wife (daughter in laws),  
daughter(s) and daughter's husband (son in law), brother(s) and brother's wife, sister(s) and  
sister's husband (brother-in-law).

Place:

Signature with Seal

Date:

Name in Block Letters:

Designation:

Address:



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**ANNEXURE 'C'**

**SOLVENCY CERTIFICATE FORMAT**

This is to certify that to the best of my knowledge and information  
M/s.....(Firm/ Company/ Sole Proprietorship name with  
address) having marginally noted address, a customer of our bank is/are respectable and can  
be treated as good for any engagement up to a limit of  
Rs.....(Rupees.....)

This certificate is issued without any guarantee or responsibility on the bank or any of the  
officers.

(Signature of Branch Manager with Seal)

Note:

1. Banker's certificate should be on the letter head of the Scheduled Commercial Bank
2. In case of partnership firm, certificate to include names of all partners as recorded with the Bank.





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**ANNEXURE 'D'**

(On Bidder's Company letter head)

**UNDERTAKING**

**ACCEPTANCE OF TECHNICAL SPECIFICATION AND AMC / NEW SUPPLY OF  
EXISTING AUTOMATIC FIRE DETECTION & ALARM SYSTEM**

I, undertake to provide the EQUIPMENTS AND THEIR SPARE PARTS as per the specifications and also maintain existing / newly installed system in good/functional condition during the AMC as per scheduled as given in this EOI or as advised by the bank from time to time.

2. And, I also agree to undertake that if any abnormalities are noticed by any inspecting Officials of the Bank in this regard, the Bank may impose suitable penalty and deduct the amount equivalent to loss to the Bank from my/our Bill/Bills or forfeit our Security Money deposited against non-adherence of Bank instructions as stipulated by the Bank.

Place:  
Date:

Signature with Seal of the Company/Firm

Name in Block Letters:

Designation:

Address:

(On Bidder's Company letter head)

**ANNEXURE 'E'**

**UNDERTAKING FOR SUPPORT OFFICE**

I/We.....

hereby undertake that I shall open support office / service center with technical personnel within a month from the date of ALLOTMENT OF WORK in the area where work is allotted to



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me in Kolkata Circle for providing 24X7 post implementation support and proof for the same along with details of Technical Staff will be submitted to the Bank.

And I understand that physical verification of the support office / service center will be done by Bank Officials and if any deviation is found, the empanelment is liable to be canceled without notice.

Place:

Signature with Seal

Date:

Name in Block Letters:

Designation:

Address: