

INDIAN BANK
Zonal Office **Ludhiana**

SCF-88, Urban Estate, Phase-I, Dugri

Ludhiana-141013 (Punjab)

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TENDER DOCUMENT

**FOR EMPANELMENT OF AGENCY FOR SUPPLY, INSTALLATION AND
MAINTENANCE OF BURGLAR ALARM SYSTEM AND FIRE ALARM
SYSTEM IN BRANCHES/OFFICES AND ATM's UNDER LUDHIANA
ZONE**

Corporate Office
254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014

1. **BACKGROUND**

Indian Bank (the "Bank") is a body corporate constituted under the Banking Companies (Acquisition and Transfer of Undertaking) Act, 1970 with its head office at 254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014. The Bank is desirous of Engaging of agency for its Branches /Offices located at **Ludhiana Zone.** To engage the experienced agencies for supply, installation and maintenance of Burglar Alarm System and Fire Alarm System for our 75 branches/Offices/ATMs. Any further addenda/ corrigenda / extension of dates / clarifications/ responses to Tenderers' queries in respect of the above tender shall be posted only on the Bank's website at www.Indianbank.in and no separate notification shall be issued in any newspapers.

2. **DISCLAIMER**

The information contained in this Tender document or information provided subsequently to the Tenderers by the Bank on the terms and conditions set out in this Tender document and all other terms and conditions, subject to which such information is provided, is being provided to the Tenderers for the purpose of inviting Tenders and does not constitute nor should be interpreted as an offer. This Tender document is meant to provide information only and the Tenderers acknowledge that it shall be used only for the purpose of preparing and submitting the Tender and for the purpose necessarily associated herewith and for no other purpose whatsoever. This Tender document has not been filed, registered or approved in any jurisdiction. Each Tenderer should, at its own costs without any right to claim reimbursement, conduct its own investigations, analysis and should check the accuracy, reliability and completeness of the information in this Tender document and wherever felt necessary to obtain independent advice. The Bank makes no representation or warranty and shall incur no liability whatsoever under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this Tender document. The information contained in this Tender document is selective and is subject to update, expansion, revision and amendment.

The Bank reserves the right of discretion to change, modify, add to or alter any or all of the provisions of this Tender document and/or the Tendering process, without assigning any reasons whatsoever. Such change will be intimated or made accessible to all Tenderers or can be accessed on the website of the Bank at www.Indianbank.in. Any information contained in this Tender document will be superseded by any later written information on the same subject made available/accessible to the Tenderers by the Bank. All information about the Bank and the Scope of Work furnished by the Tenderers to the Bank in the context of the Scope of Work shall be deemed to be

“Confidential Information” for purposes of this Tender document. Information provided in this Tender document is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. Further, the Bank does not accept liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Tenderers upon the statements contained in this Tender document.

The Bank reserves the right to reject any or all Tenders received in response to this Tender document at any stage without assigning any reason whatsoever and without being liable for any loss/injury that Tenderer might suffer due to such reason. The decision of the Bank shall be final, conclusive and binding on all the Tenderers/parties directly or indirectly connected with the Tendering process.

While this Tender document has been prepared in good faith, neither the Bank nor its employees, officers, and executives make any representation or warranty or shall have any responsibility or liability whatsoever in respect of any statements or omissions here from. Nothing in this Tender document shall be construed as legal, financial or tax advice. Any liability is accordingly expressly disclaimed by the Bank, its employees, officers, executives, affiliates, their respective officers, employees and agents even if any loss or damage is caused by any act or omission on the part of the Bank, its officers, employees, executives, affiliates, their respective officers, employees and agents, whether negligent or otherwise.

3. **TIME SCHEDULE OF THE TENDER PROCESS:**

Sl. No	Particulars	Date and Time
1	Date of commencement of Tender Process	Date- 22nd Aug 2023
2	Date and time for receipt of written queries for clarification from Tenderers.	Date- 8th Sep 2023
3	Last date and Time for submission of Tender including Technical and Financial Bids and EMD (“Tender Due Date”).	Date- 11th Sep 2023 Time- 12:00 PM
5.	Date and Time for opening of the Technical Bid.	Date – 11 th Sep 2023 Time – 04:00 PM
6.	Period of Contract	One year

7.	Date and Time for opening of Financial Bids.	Date and time for opening of Financial Bids shall be advised separately after evaluation of Technical Bids. Venue: Indian Bank, Zonal Office,
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Note:-

- Offers from firms not having their own offices in Ludhiana/Chandigarh before the commencement date of tender will not be considered.
- Technical Bid and Price Bid both must be submitted together in separate sealed envelope before the closing date. No Separate Price bid will be called for during the process. Bidders not submitting both offers will be rejected.
- Any bid received after **12 PM on 11.09.2023** will not be entertained.
- In case of any unexpected interruption due to events beyond control of the tender committee, the process interrupted will be continued on the subsequent working day at the scheduled time.
- Refer Ministry of Finance, Department of Expenditure (Public procurement Division) notification dated 23 July 2020 regarding restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017. Bidders not found eligible will not be considered for empanelment.

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

Tender document can be obtained from ZO Ludhiana SCF-88, Urban Estate, Phase-I Dugri Ludhiana-141013, (Address) on payment of **Rs 500/-** Non-Refundable) by way of Demand Draft/Pay Order favouring Indian Bank payable at Ludhiana or may be downloaded from our website www.Indianbank.in However, for Tender downloaded from website the Pay Order/Demand Draft will be submitted along with the Tender document.

4. TERMS & CONDITIONS

4.1 The empanelment shall be valid for a period of three years. The rates arrived through tender process for Supply, Installation and Maintenance of Security Equipments will remain fixed for a maximum period of **Three** years.

4.2 The contract period for supply, Installation and Annual Maintenance Contract (AMC) Security Equipment will be for three years subject to yearly renewal based on the satisfactory performance of the contracted vendors. Rates fixed at the time of contract (excluding GST) for supply and installation of new equipment will be non-negotiable and no upward revision will be permitted throughout the period.

4.3 Vendors are required to take over the work from any vendor who has provided unsatisfactory services to the Bank within a contract period as per discretion of the Bank.

4.4 At any point of time during the empanelment period the empanelled vendor(s) should be willing to accept the AMC of any existing equipment as per the requirement of the Bank.

4.5 If the equipment has completed the service life of six (06) years and cannot be repaired economically, service reports of such equipments are to be forwarded to the Zonal Office. The mode of repairs / maintenance of such equipments will be decided by the Zonal Office.

4.6 AMC charges will not be paid during warranty period. However the selected vendor will have to render services as and when required to ensure the functionality of equipment installed at the branches during Warranty period, where the equipment has been installed by them.

4.7 Vendor should compile the AMC reports quarterly and send a copy to Zonal Security Officer. This is a mandatory obligation and non-adherence will result in cancellation of AMC.

4.8 AMC and supply and installation of equipments to all branches assigned to the vendor shall be done, including far-flung areas. Non adherence of the same will result in penalty and subsequently termination of rate contract and AMC.

4.9 If Bank's Corporate Office or any higher office of Indian Bank conducts Pan India rate contract or in case of any policy change, ZO _Ludhiana_ will have the right to cancel this AMC/Rate contract. In such case notice of one month will be served to the firm for termination of AMC/ Rate contract and no other claims will be entertained.

4.10 Non-adherence of terms & conditions, clauses of Tender and unsatisfactory performance of the contracted vendors will warrant termination of contract with one month notice by the Bank.

5. NO COMMITMENT TO ACCEPT LOWEST OR ANY TENDER

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

6. ELIGIBILITY CRITERIA

6.1. Minimum 5 years experience of supply, installation, commissioning and maintenance of security equipments like CCTV/ Burglar Alarm System/Fire Alarm System in at least 2 Public Sector Banks/Private Banks. Documentary proof should be submitted.

6.2. Minimum turnover Rs 25 Lacs per year in last 3 years

6.3. Minimum bank guarantee/Security deposit of Rs. 2 lacs.

6.4. Registration with GST, PAN ESI and EPF (As per Govt. Guidelines)

6.5. Availability of after sale service net work within Punjab state/Chandigarh.

6.6 Availability of warranty for every item.

6.7. Availability of authorization letter from the principle/OEM whose products are proposed.

7. PROCEDURE TO BE ADOPTED FOR SUBMISSION OF TENDER:

7.1 General Instructions

- (a) Tenderers must review this Tender document as a whole and ensure that their Tenders are as per the terms hereof. The Bank retains the right to modify the terms of this Tender document and/or any of the sections / attachments / formats at any time prior to the Tender Due Date.
 - (b) Tenderers are expected to examine this Tender document, including all instructions, forms, specifications, conditions and other documents and requirements hereof. Failure to furnish any or all of the information required by this Tender document or submission of a Tender not responsive to this Tender document in every respect may result in rejection of the Tender. Tenderers shall be deemed to have understood and taken into account all the terms and conditions prescribed in this Tender document.
- 7.2 Tenderers must apply to the Bank in the prescribed proforma as provided in this Tender document.
- 7.3 The Tender should contain the following:
- (a) The Technical Bid;
 - (b) The Financial Bid.
- 7.4 **The Technical Bid:** Tenderers must submit the Technical Bid in the format set out in Annexure A with all the documents mentioned in eligibility criteria of this Tender document, duly filled up, in an envelope super scribing "Technical Bid For maintenance of Burglar Alarm System and Fire Alarm System" on the top of the envelope. The format of the Technical Bid shall be typed out and printed on the Tenderer's letter head and signed by the Tenderer or an authorized signatory tendering with authorization from the Tenderer. The content of the Technical Bid submitted by a Tenderer must be same as the format set out herein and should not contain any other information. If there is any change in the contents of the Technical Bid submitted by the Tenderer as compared to the format set out herein, then the Tender shall be rejected.
- 7.5 **The Financial Bid:** Tenderers must submit the Financial Bid in the format set out in Annexure B of this Tender document, duly filled up, in separate sealed envelopes super scribing "**Financial Bid for Maintenance of Burglar Alarm System and Fire Alarm System**" on top of the envelope. The Financial Bid shall not include any conditions attached to it. All unit rates and prices in the Financial Bid shall be quoted by the Tenderers in Indian Rupees only. Any such conditional Tenders shall be liable for rejection.

7.6 These two separate sealed envelopes should be put together in a third envelope duly sealed and super-scribing **“Tender for Maintenance of Burglar Alarm System and Fire Alarm System.”**

7.7 No Tenderer shall submit more than one Tender. A Tenderer who submits or participates in submitting more than one Tender shall be liable for rejection of all Tenders in which such Tenderer has participated.

7.8 The Tender as well as all related correspondence exchanged by the Tenderer with the Bank shall be written in Hindi or English language. The Tender form, complete in all respect, should reach the following addressee through any mode of delivery before the Tender Due Date:-

Assistant General Manager

Indian Bank, Zonal Office

SCF-88, Urban Estate, Phase-I, Dugri

Ludhiana-141013 (Punjab)

7.9 The Bank may at its sole discretion, extend the Tender Due Date by amending the Tender Due Date, in which case all rights and obligations of the Bank and the Tenderers will be subject to the Tender Due Date as extended.

7.10 The Bank is not responsible for non-receipt of Tender within the Tender Due Date due to any reason including postal delays or holidays.

7.11 All pages of this Tender document should be sealed and signed by the Tenderer.

8. **Selection Process**

The Tenderers fulfilling eligibility criteria shall be eligible for opening of financial bids .

8.1 Selection criteria for the Financial Bid shall be that the Tenderer must quote the lowest rate.

8.2 In case of tie between two or more Tenders, Bank will go for the inter-se Tendering amongst the Tenderers involved in tie.

9. **VALIDITY PERIOD OF THE TENDER:**

The Tender shall remain valid for a period of 90 (Ninety) days from the Tender Due Date. In exceptional circumstances, prior to expiry of the original validity period, the Bank may extend the period of validity.

10. **OTHER TERMS AND CONDITIONS**

10.1 The Tenderers shall be responsible for all costs associated with the preparation of their Tenders and their participation in the tendering

process including subsequent negotiations, visits to the Bank, etc. The Bank will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the selection process.

- 10.2 The Financial Bid should clearly indicate the total rate quoted by the Tenderer both in figures and words, in Indian Rupees. In the event of any difference between figures and words, the amount indicated in words shall prevail. In the event of a difference between the arithmetic total and the total shown in the Financial Bid, the lower of the two shall prevail.
- 10.3 The Bank reserve the right to split the work among 2 bidders.
- 10.4 The selected agency to ensure that any complaint made by our branches/offices is attended within 24 hours and new equipments installation/repair is completed within 72 hours.
- 10.5 The Agency shall be responsible for and obliged to all its obligations related to the Scope of Work in accordance with the Contract using best practices and industry standards, state of the art methods and economic principles and exercising all means available to the Agency to achieve the performance of the Scope of Work specified in the Contract.
- 10.6 Tenders not conforming to the requirements of the Tender document shall not be considered by the Bank. However, the Bank reserves the right, at any time to seek more information/ clarification on Tenders or to waive any of the requirements of the Tender document, if in the sole discretion of the Bank; the best interests of Bank would be served by such actions.
- 10.7 The Bank shall have the right to cancel the Tender process at any time prior to award of the Contract, without thereby incurring any liabilities to the affected Tenderers.
- 10.8 The Bank reserves the right to verify the validity / correctness of Tender information and to reject any Tender where the contents appear / found to be incorrect, inaccurate or inappropriate at any time during the process of Tendering or even after award of Contract.
- 10.9 The Bank may elect to take an undertaking from employees / associates of the Tenderer to maintain confidentiality of the Bank's information / documents, etc. In this regard, the Bank may seek details/ confirmation on background verification of the Tenderer's Personnel. The Agency shall promptly furnish all such information and documents sought by the Bank.
- 10.10 If Chief Technical Examiner of the Central Vigilance Commission, Government of India, examines the work performed by the Agency pursuant to the Scope of Work and points out any defects or irregularities therein, the Agency shall take necessary steps to get those rectified promptly at no additional cost to the Bank, shall also assist the

Bank in providing responses/ representations to the observations made by the Chief Technical Examiner.

10.11 Tenders shall be deemed to be under consideration immediately after the Tender Due Date and until such time the Bank makes official intimation of award/rejection to the Tenderers. While the Tenders are under consideration, Tenderers and/or their representatives or other interested parties are advised to refrain, save and except as required/permitted under this Tender document, from contacting by any means, the Bank and/or its officers, employees, representatives, advisers on matters related to the Tenders under consideration.

10.12 The Bank reserves the right to abandon, defer stop execution of any activity included in Scope of work related to any property any time even after execution of contract, giving due written notice to the Agency.

11. **CANCELLATION OF TENDER PROCESS**

The Bank reserves its right to accept or reject any or all Tenders or cancel tender process without assigning reason for doing so. Any decision of the Bank in this regard shall be final, conclusive and binding upon the Tenderers. The Bank reserves the right to accept or reject any Tender in part or in full, and to cancel the tendering process and reject all Tenders at any time prior to contract award, without thereby incurring any liability to the affected Tenderer(s) or any obligation to inform the affected Tenderer(s) of the grounds for the Bank's action. During the evaluation process at any stage, if it is found that a Tenderer does not meet the eligibility criteria or has submitted false / incorrect information, the Tender will be rejected summarily by the Bank. Any effort by a Tenderer to influence the Bank in the Tender evaluation, or Contract award decision, may result in the rejection of the Tender.

12. **INDEMNITY:**

The Agency shall always keep the Bank indemnified and hold the Bank, its employees, personnel, officers, directors, representatives harmless from and against any and all losses, liabilities, claims, actions, costs and expenses (including attorneys' fees) relating to, resulting directly from or in any way arising out of any claim, suit or proceeding brought against the Bank as a result of:

- (a) Breach of any of the term of this Tender document or breach of any representation or false representation or inaccurate statement or assurance or covenant or warranty of the Tenderer under this Tender document and/or a Tender;
- (b) and/ or breach of confidentiality obligations of the Tenderer contained in this Tender document;

- (c) and/ or willful negligence or gross misconduct solely attributable to the Tenderer or its Personnel;
- (d) Non-compliance by the Tenderer and/or its Personnel with applicable laws;
- (e) Loss of data due to any of the reasons mentioned above; The Tenderer's indemnity obligations under this

13. **GOVERNING LAW AND JURISDICTION**

This Tender document shall be governed by the laws of India. Subject to clause 20 above, any dispute or difference arising out of this Tender document, the Tenders and the subsequent Contract awarded based on this Tender document shall be subject to the exclusive jurisdiction of the courts in Punjab.

Annexure - A

Assistant General Manager

Indian Bank

Zonal Office,

SCF-88, Urban Estate, Phase-I, Dugri

Ludhiana-141013 (Punjab)

Sub: Empanelment of Agency for Supply, Installation and Maintenance of Burglar Alarm System and Fire Alarm System in branches/ Offices Building at Ludhiana Zone

Dear Sir,

With reference to your Tender Document dated -----, I/we, having examined all relevant documents and understood their contents, hereby submit our Technical Bid for selection as agency for empanelment for Supply, installation and maintenance of Burglar Alarm System and Fire Alarm System of Bank's Branches/ Offices in Ludhiana Zone.

1. We agree to undertake the AMC work, if allotted by the Bank, as per the Scope of Work.

2 We agree and undertake to abide by all the terms and conditions of the Tender document. We submit this tender under and in accordance with the terms of the Tender document.

3 The undersigned is duly authorized and competent to sign the documents on behalf of the Tenderer.

4 We agree to keep this offer valid for 90 (Ninety) days from the last date of submitting the proposal as specified in the Tender.

5 We submit all the documents mentioned in eligibility criteria of this tender.

6 I/We certify that there has been no conviction by a court of law or indictment/ adverse order in any jurisdiction by any regulatory authority or body for any offence or wrong doing against us or any associate / affiliate / or the CEO/ Directors / Managers / Partners/ Employees of our concern or that of our associate / affiliate. It is further certified that there is no investigation pending or threatened against us or our associate / affiliate or the CEO/ Directors / Managers / Partners / Employees of our concern or that of our associate / affiliate / in any jurisdiction. I/We certify that working for the Bank in relation to the proposed assignment does not and will not conflict with the other assignments that I/we have or may have now or in future. I/We further certify that we will not share Confidential Information with other assignment teams working for other clients or any other staff member who may be conflicted.

Yours faithfully,

Signature, Name & Designation of authorised
signatory / seal of the firm / company)

Place:

Date:

Annexure-B**Financial Bid**

Assistant General Manager

Indian Bank, Zonal Office

Ludhiana

SCF-88, Urban Estate, Phase-I,Dugri

Ludhiana-141013 (Punjab)

Electronic Fire Alarm System

SI No	Item	Quantity	Rate
1.	Main Control Unit with Auto Dialer (Agni) or equivalent	01	
2.	Main Control Unit without Auto Dialer(Agni) or equivalent	01	
3.	Main PCB Control card (Agni) or equivalent	01	
4.	Power Supply Card (Agni) or equivalent	01	
5.	Main Power Transformer 24 V (Agni) or equivalent	01	
6.	Smoke Detector (Apolo or equivalent)	01	
7.	Heat Detector (Apolo or equivalent)	01	
8.	Manual Call Point (Apolo or equivalent)	01	
9.	Hooter 24 V (Agni or equivalent)	01	
10.	Wire 2 Core (ISI Mark)	Per meter	
11.	PVC Pipe (ISI Mark)	Per meter	
12.	Armoured Cable 1.5 mm 2 Core(Fenolex, Delton or equivalent)	Per meter	
13.	Dry Battery12V- 7AH(2 Batteries (Exide/Amron or equivalent)	02	
14.	Auto Telephone Dialer (Securico or equivalent)	01	
15.	GSM Auto Dialer (Securico or equivalent)	01	
16.	On/Off Key Switch (Agni/Securico or equivalent)	01	
17.	Installation/Re-installation/Shifting	Per branch	
18.	Buy back old system	01	
		Total without GST	
	AMC Charges (Per quarter)	Per Branch/Per Offsite ATM	

Burglar Alarm System

SI No	Item	Quantity	Rate
1.	Main Control Unit with Day & Night facility with Auto Dialer (Securico Uno or equivalent)	01	
2.	Main Control Unit with Day & Night facility without Auto Dialer (Securico Uno or equivalent)	01	
3.	Main PCB Control Card(Securico or equivalent)	01	
4.	12 V Rechargeable Battery-12 V-7AH (Exide/Amron or equivalent)	01	
5.	Hand Switch/Panic Switch(ISI Mark)	01	
6.	Magnetic Switch/Sensor (Securico or equivalent)	01	
7.	Electronic Hooter (Securico or equivalent)	01	
8.	PIR Sensor (QUAD) (Securico or equivalent)	01	
9.	Auto Telephone Dialer (Securico or equivalent)	01	
10.	Wire 2 Core (ISI Mark)	Per meter	

11.	PVC Pipe (ISI Mark)	Per meter	
12.	GSM Auto Dialer(Securico or equivalent)	01	
13	Motorised Siren (Securico or equivalent)	01	
14.	Installation/Re-installation/Shifting	Per branch	
15.	Buy back old system	01	
		Total without GST	
	AMC Charges (Per quarter)	Per Branch/Per Offsite ATM	

ANNEXURE-C

Technical Specification for Security Alarm System

1) Micro - Processor based Control Panel with inbuilt LED indication & with integrated Auto-dialer [preferably GSM Based. However, if mobile network is not available, PSTN (Public Switched Telephone Network) based]

1.1. External Body Features –

- 1.1.1 Protected from dust, water, vermin etc.
- 1.1.2 Acrylonitrile Butadiene Styrene (ABS)/ 18 SWG M S Cabinet, epoxy Coated.
- 1.1.3 Locking of panel by Allen Head screw on sides / internal lock
- 1.1.4 Bracket mounted.
- 1.1.5 Provision for battery compartment inside the panel.

1.2. Micro - Processor based Control Panel with inbuilt LED indication & push button to show the status/health of the system (Data Logger System). The panel should indicate the health of the system (Fault, power failure and battery status indicator).

1.3. Option to add wireless module having provision for Cordless Switch to activate the alarm system

1.4. Real Time Clock with accuracy of +/- 15 Sec per day.

1.5. In the event of any zone getting faulty or switch getting isolated, it should give indication on the LCD display and the system to remain functional

1.6. The system should automatically (arming & disarming) change from day to night mode & Vice-versa as per the real time clock (programmable) and also have option to change manually with existing key pad.

1.7. Sounding of hooters gets automatically put off after a period of **3 minutes (programmable with the help of key pad) and thereafter the entire system should get reset)**

1.8. The system shall have programmable 0 - 90 Sec time delay to activate the sounding of hooters for panic switches and entry and exit time delay from 0 to 90 sec for PIR.

1.9. The system should have in-built auto-dialer (PSTN based or GSM based).

1.10. System operating on Mains and battery backup (12V 7Ah) with recharging facility

1.11. Should support two external hooters besides the internal one

1.12. It should be compatible with PIR Sensors, Magnetic Sensors, Vibration Sensors, Light Sensors and have one zone for fire detector (smoke sensor) etc. and capable to put on the lights when activated during night mode.

1.13. Auto Reset after activation – 03 minutes (Day & Night Mode)

1.14. Any wire cut should activate the alarm system for 120 seconds and thereafter the affected switch / zone to get isolated/ bypassed with display / blinking of LCD panel indicating the defect

1.15. ON/OFF function of the system should only be with the help of keypad

2) In-built Auto Dialer:

- 2.1 It should be compatible with GSM / PSTN connection of any service provider.
- 2.2 Provision for storage and dialing minimum five (05) Telephone / mobile numbers with recording message up to 20 Seconds duration.
- 2.3 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.
- 2.4 Should have message recording facility at local end (Branch end)
- 2.5 In-built GSM auto-dialer should have the ability to generate SMS alerts in addition to auto-dialing the pre-fed numbers.
- 2.6 Provide signal strength and status indication on display screen.

3). Wiring:-

- 3.1 2 Core and 4 Core Multi strand .75 sq. mm, flexible, ISI marked (Finolex/ Plaza/Polycab/ RR Cable or similar quality), PVC insulated copper wire for connection of panic switches and other sensors respectively.
- 3.2 Rigid PVC conduit 2 mm ISI mark. Fixed with metal saddling at every 02 ft distance.

4) PIR SENSOR

- 4.1. Dual Technology (IR & Microwave)
- 4.2. Detection coverage horizontal angle 110 degrees
- 4.3. Detection Range: Up to minimum 10 Mtrs
- 4.4. Sensitivity range: Low/ Med/ High
- 4.5. Wall mounting facility
- 4.6. Pet / rodents immunity
- 4.7. Provision for calibration to adapt changes in ambient temperature due to various seasons

5) Hooter:

- 5.1. Min 90 dB for internal and 110 dB for External (CE & UL certification)
- 5.2. 4 wired with tamper loop (Cutting of hooter wire should trigger other hooter)
- 5.3. ABS body
- 5.4. Weather Proof
- 5.5. Wall mounting facility
- 5.6. Operates on 12 Volt DC

6) Magnetic Sensor:

- 6.1. ABS body
- 6.2. 4 wired with tamper loop (NC circuit)
- 6.3. Operating Gap: 15mm

7) Multi-Function Sensor :

- 7.1. Capable of vibration detection, metal cutting and glass breaking
- 7.2. ABS body
- 7.3. Sensitivity range: Low/ Med/ High

8) Panic Switches:

- 8.1. Sturdy built
- 8.2. Micro Switch Technology
- 8.3. In-built tamper Switch

Technical Specifications of automatic Fire Detection & Alarm System

Specifications of Panel & Battery	
1. Main Control Panel	Technical Specifications
Primary Function	The primary function of the control panel shall be to automatically respond to the operation of one or more detectors to give fire alarm and to indicate area (zone) from where the devices are activated
Specifications	Minimum 4 (Four) Zone Microprocessor based Control Panel conforming to IS 15908/2011 & 2189/2008. UL/EN approved, Approved / tested by ERTL/ ETDC or any Third Party Laboratory/ Test House recognized by Bureau of Indian Standards for this purpose may also be accepted.
Electrical \ Electronics	<ul style="list-style-type: none"> a) Built in power supply arrangement with AC/DC ON, system ON visual indicators. b) Automatic changeover arrangement to standby supply with built-in battery charger, low battery, charger fail, reverse polarity, AC/DC fail visual indicators. c) Built-in panel sounder with Acknowledge switch, lamp test and reset switches, evacuation alarm. d) Zone indicators for Fire, Open, Short, Isolate and Test Facility. e) On fault i.e, open / short condition, buzzer must sound and indicator lamp (LED) glow. This audible alarm should be distinct from the Fire Alarm. Trouble reminder f) Built-in Digital Ammeter, Digital Voltmeter, Air Conditioning turn- off relays and facilities for connecting Auto dialer
Power Supply	The fire panel shall operate from a 230 v + / - 10 % 50 Hz mains supply and in case of power failure shall automatically switch over to a built-in sealed maintenance free battery rated at 24V DC 7 AH with a switch over time of less than 100 ms. Deep discharge arrangement should be there.
Power Consumption	Less than 200 mA idle current and 1 –2 Amps on full activation.
AC Voltage at Input	Single Phase 50 Hz, 150-260 V. Auto cut-off protections for over and under current / voltage
DC Voltage for System	24 Volts
Type of indicator lamps	LED (Different colors)
Body	<ul style="list-style-type: none"> a) Type - Wall mounting, plug in modular type. b) Overall dimensions- Suitable size to accommodate 4 zones, other control components, and 2 X 12V 7 AH Battery. c) Thickness of body and colour - 16 SWG. Powder coating d) Opening of the Body/panel - Suitable locking arrangement through Key/Allen Screws e) Cable glands- Cable glands should be provided

Additional facilities:	Auto dialer should have capacity to register at least 5 (five) telephone numbers, be integrated within Main Control Panel
2. BATTERY UNIT	
Make	Standard ISI make
Type	Sealed, maintenance free
Voltage	12 Volts: 2 units.
AH Capacity	7 AH capable of providing 48 hrs stand by supply in case of AC failure as per IS 15908/2011 & 2189/2008 and full load operation for at least 30 mins.
Location	Both the batteries will be located within the Main Control Panel

ANNEXURE –C(II)

SPECIFICATIONS: MCP, HOOTER, RI AND CABLE	
3. MANUAL CALL POINT	
Make as per BIS	As per IS 15908/2011 & 2189/2008. with hammer and chain
Material of body	M.S., Powder coated with approved P.O red
Thickness of body	1.5 mm.
Material of fragile element	Glass of 2mm thickness
Contact making breaking	Breaking for alarm
Dimension	100 mm x 100mm
Size of fragile element	70 mm x 70mm
Type of indicator lamp	LED
4. ELECTRONIC HOOTER/SOUNDER	
Make	As per IS 15908/2011 & 2189/2008.
Watt/ capacity	6 Watts (Dual tone) of Min 65 db output
Type of sound emitted	Intermittent / Dual
Material of the body	Fabricated from either spun aluminum or moulded PVC
5. RESPONSE INDICATOR	
Make	As per IS 15908/2011 & 2189/2008 or equivalent as per prevalent trade and practice, acceptable to the Bank
Type of indicator lamps	LED
Material of the body	Fabricated from either spun aluminum or moulded PVC or MS 16 SWG
6 .CABLE	
Make	Standard ISI mark
Specification	IS 1554-Part-1 1988
Type	2 core, 1.5 sq. Mm/core; Armoured Cable

SPECIFICATIONS: VARIOUS DETECTORS	
7 . DETECTOR	
i) IONISATION SMOKE DETECTOR:	
Operation Principle	Ionization (Apollo 65 and its equivalent other makes)
Specification	IS 11360-1985/UL-217/EN-54/FM/ LPCB
Voltage range	24 V DC, 20-30V
Type of Indicator lamp	LED
Compatible to work with	Optical and Heat and Multi Sensor
ii) OPTICAL SMOKE DETECTOR :	
Operation Principle	Light Scattering or obscuration (Apollo 65 and its equivalent
Specification	IS-11360-1985/UL/BS/FM/LPCB
Type of Indicator lamp	LED
Compatible to work with	Ionization and Heat and Multi Sensor
iii) HEAT DETECTOR:	
Operation principle	Rate of rise cum fixed temperature type.
Specification	IS-2175/1988, UL/BS/FM/LPCB
Type of Indicator lamp	LED
Compatible to work with	Ionization and Optical and Multi Sensor
