



STATE BANK OF INDIA, AMARAVATI, CIRCLE

INVITES

ONLINE TENDER FOR

SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND MAINTENANCE

OF MICROPROCESSOR BASED INTELLIGENT ADDRESSABLE FIRE ALARM  
SYSTEM AT SBI

LHO, GUNFOUNDRY, AMARAVATI FROM BANK'S EMPANELLED

CONTRACTORS (ABOVE 3 LAKHS TO 40 LAKHS ONLY) FOR SMOKE DETECTION  
& FIRE ALARM SYSTEM

Note: Firms should possess valid digital signature for online tender with encryption

Last date for submission of Tender: 3:00 PM (IST) on 23.04.2025

Opening of price Bid: 11.30 AM on 24.04.2025

The Assistant General Manager (P&E)  
State Bank of India  
Premises & Estate Department  
2<sup>nd</sup> Floor, SBI Amaravati LHO building,  
Gun foundry, Abids  
Hyderabad- 500001  
Ph no. 040- 23387234

## **Notice Inviting Tender**

### **OnlineTender for Microprocessor Based Intelligent Addressable Fire Alarm System and Maintenance as per code (Latest Amendment)**

1.	Name of Work	Supply, Installation, testing & commissioning and maintenance of Microprocessor Based Intelligent Addressable Fire Alarm System at SBI, LHO, Gunfoundry, Amaravati in Hybank Tower, Gunfoundry and Annex (Old existing) Building.
2.	Value of the work	Estimated cost: Rs 30,29,900.00
3.	Eligibility of the Contractor	Empanelled Contractor for Smoke Detection & Fire Alarm System above 3 Lakhs to forty (40) Lakhs only with SBI, Amaravati Circle.
4.	Time of Completion	Four (6) weeks from the placement of work order
5.	Warranty period	One-year warranty from the date of commissioning of the Addressable Intelligent Fire Alarm System
6.	Earnest Money Deposit	Rs.30,000/- to be deposited physically at this office as an EMD. EMD will be retained for successful vendor and EMD will be returned to the unsuccessful vendor.
7.	Mode of submission of tender document	Technical & prices shall be received through only online tender portal only.
8.	Availability of tender document	From 03.04.2025 at 10.00 AM to 23.04.2025 at 3.00 PM
9.	Last date and time for submission of online tender.	23.04.2025 at 3.00 PM. at “ <a href="https://etender.sbi">https://etender.sbi</a> ”
10	Demonstration of Intelligent Addressable Fire alarm System & Pre-bid meeting.	11 AM to 1.30 PM respectively on 10.04.2025 at SBI, LHO, Gunfoundry,, Hyderabad.
11.	Date and Time of opening of Tenders	Date: 24.04.2025 11.30 AM (Price Bid)
12.	Online Tender will be conducted by our approved E- Tendering consultant	M/s e-Procurement Technologies Limited, Ahmadabad, Online tendering guidelines may be obtained from Abhik Pramanik, Cell: 7859800609/9081000427 E-Mail: <a href="mailto:abhik.p@eptl.in">abhik.p@eptl.in</a> Contact Hours; (Monday-Friday: 10.00AM-7.00 PM (IST), Saturday: 10 AM-6.00 PM

		(IST)) (Exclusion: Sunday, Holidays and 2 <sup>nd</sup> & 4 <sup>th</sup> Saturday)
13.	Tender Validity	90 days
14.	Validity of Rate contract	One year from the date of acceptance of the rates by the bank subject to review of performance after one year. It can be renewed for one more year subject to satisfactory performance report from the user department.
15.	Date of availability of tender documents on bank's website/e-tender portal	From 03.04.2025 to 23.04.2025 up to 3.00 PM Bank's website: <a href="https://sbi.co.in/en/web/sbi-in-the-news/procurement-news">https://sbi.co.in/en/web/sbi-in-the-news/procurement-news</a> and e-Tender Portal: <a href="https://etender.sbi/SBI/">https://etender.sbi/SBI/</a>
16.	Details of Payment	i) No advance / running bill is payable. Payment will be 100% after supply, installation, testing and commissioning of Addressable Smoke detection & fire alarm system.
17..	Liquidity Damage	0.5% of the total contract amount per week beyond the stipulated time for completion, subject to maximum of 5% of the contract value.
18.	Security Deposit	The amount of initial security deposit shall be 2% of the accepted tender amount including 1% of EMD.
19.	Release of retention amount (Security Deposit)	After completion of defect liability period of one year security deposit will be released.
20.	Lowest vendor (L1) will be finalized based on total amount (Sl.No.13) only. i.e. including AMC amount up to 5 <sup>th</sup> Years.	
In case the date of online tendering is declared as a holiday/sunday, the online tendering will be conducted on the next working day at the same time.		
Bank reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.		
For any clarification regarding online tendering procedure, System requirements etc please contact M/s E-Procurement Technologies limited, Ahmadabad, whose address mentioned in the NIT.		
It is company's responsibility to be well prepared and be ready with online tendering procedures & well equipped with all requirements. Bank will not take any responsibility for slow internet connectivity, system failures etc.		
Tenders are to be uploaded directly to M/s e-procurement Technologies Limited. For details please contact E-mail: <a href="mailto:abhik.p@eptl.in">abhik.p@eptl.in</a> . No Physical copy of Tender is entertained. Vendors are advised to deposit only EMD at this office.		
Earnest money to be refunded for unsuccessful contractors after 10 days and will retain of successful bidders, which shall be adjusted as security deposit.		

## **Scope of work & specification:**

### **1.1 Description:**

The work shall consist of supply, installation, testing & commissioning of a complete high quality advanced technology early detection intelligent analogue soft addressable fire alarm system as per drawings.

### **1.2 REFERENCES FOR INSTALLATION**

- a) NFPA-National Fire Protection Association
- b) NFPA 72
- c) British Standard institute/European Standards
- d) All applicable codes and standards including BS EN 54
- e) German Standards VDE (Verband Deutcher Electrotechniker) DIN VED14675 and VDE 0833 Fire Alarm System
- f) Under Laboratories standard (UL/FM/LPCB)

1.3 Product data for fire alarm system components including dimensioned plans, sections and elevations showing minimum clearances, installed features and devices, and list of materials and data.

Shop drawings

- a) System operations description including method of operation and supervision of each type of circuit and sequence of operations for all manually and automatically initiated system inputs description shall cover this specific project.
- b) product certifications signed by the manufacture of the fire alarm system components certifying that their products comply with any one of the references standards, completely with specifications and Vds/UL approval or equal.

### **1.4 TRANSPORTATION,HANDLING AND STORAGE**

- a) All the components of fire alarm system shall be provided in manufacturer's original new and unopened packing bearing manufacturer's name and label.
- b) Store materials, not in actual use, in covered and well ventilated area and protect them from dirt, dust moisture, direct sunlight and extreme temperatures.
- c) for further requirements follow manufacturer's written instructions regarding storage and handling.

## 1.5 WARRANTY

Submit written guarantee signed by the contractor, manufacturer and installer of fire alarm system for **period of 1 year from the date of substantial completion**. The guarantee shall cover the repair and replacement of material with manufacturing defects and workmanship as directed by the Fire Engineer.

## 1.6 QUALITY ASSURANCE:

- a) Manufacturer's Qualifications: Firms regularly engaged in manufacturing of fire alarm systems and components, whose products have been in satisfactory use in similar services for not less than 05 years periods and be subject to approval of Fire Engineers.
- b) Installer Qualifications: A minimum 05 years experienced specialist sub-contractor who is authorized by the system manufacturer, and subject to approval of Fire Engineer.
- c) All the components and installations shall comply with the requirements of DIN VDE 14675 & VDE 0833/NFPA for design & installation.
- d) Provide system and components specified in the section that are listed and approved by Vds/UL & conform to equivalent FM standards.
- e) **Single Source Responsibility:** All components and accessories shall be product of single manufacturer:

## 2.1 SYSTEM DESCRIPTION:

The fire detection and alarm system shall comprise of Automatic soft Addressable Modular design main fire control panels, optical smoke & heat sensors, manual call points, electronic wall mounted alarm sounder cum flasher devices. Transponder interface units, each with its own short circuit built-in isolators. All loop cabling and any other components and accessories deemed necessary for a safe, reliable and satisfactory system shall conform to the relevant and applicable requirements and recommendations of DIN EN 54. The system shall be fully programmed to accommodate fire alarm zones. The system shall be configured to allow on site modifications with the minimum of disruption using the PC based software to facilitate future changes or alternations to existing buildings/network on site.

The fire alarm and detection system shall provide the following facilities as a minimum:

- a) The system shall be intelligent in operation with advanced decentralized intelligence technology. Each detector shall have its own processor with algorithms built in the device to take a fire or fault decision. System with centralized intelligence by providing signal levels to the control panel is not acceptable.
- b) The system will be capable of proving fire, fault disablement and supervisory monitoring facilities as required by DIN EN 54 Pt 2. All devices on a loop shall have built in SHORT CIRCUIT LINE ISOLATORS for wiring fault isolation to protect the system. "Group Circuit monitors" which isolate/protect sections of a loop circuit, i.e a group of field

devices are not acceptable. In case the component is not having inbuilt isolators then the isolator Modules should be implemented before and after every individual detectors and devices as per NFPA 72 CLASS-A wiring and style 7 wiring.

c) All system components and devices shall be connected to two-wire loop circuits (as shown in the typical schematics) with each component having its own individual built-in isolator. Removal or disconnection of any component from the loop shall not affect the functioning and performance of other components and the system.

d) System shall be automatically addressable type i.e all the devices on the loops of the FACP shall be allocated addresses automatically from the PC/panel at the time of system power. The loop devices shall also be able to commission by using PC interface without the need of FACP.

e) And also given an address during commissioning of the value of which shall be stored in non-volatile memory, within the electronic modules of the outstation. This value shall be read during loop allocation and provided it is valid shall be used to set up the out stations primary addresses.

f) Automatic addressing shall cover the benefits of soft Addressing and also overcome the limitations of hard Addressing. This means that if the devices are inserted or removed all the existing devices shall keep the same addresses and programmed activations and use labels remain unchanged. The panel with PC shall allocate the addresses to ensure that it is impossible for two devices to have the same address. Fire Detection and Alarm Systems, which rely only on Coding, Programmer or hard addressing techniques are not acceptable. Facilities shall be provided to consistently monitor and check the following circuits and fault conditions:

a) The power supply to the loop/s.

b) For open-circuit, short circuit, earth fault and any other fault condition in the loop wiring; for communication failure and errors in all cards and loops.

c) for faults in keyboard and printer circuits.

d) all devices, etc. shall be installed on the same loop.

e) Any event i.e. Fire, fault or warning shall be recorded with time, date and place of occurrence in the memory of FACP. These events can either be displayed on LCD Display of the FACP or printed as required. Provision shall be done at the fire alarm control panels to silence the loop powered alarm sounders but the visual indication shall remain until the system is reset. The detectors shall have auto learn sensitivity adjustments. The main fire alarm control panels shall be located in the fire control room at ground floor.as shown on the schematics floor plan.

## 2.2 GENERAL:

a) All major component of fire alarm system shall be product of a single manufacturer and shall conform to the requirement of EN54, Vds/UL/FM/LPCB approved and be design to

accept to DIN VDE14675 and VDE 0833/NFPA Fire Alarm System CODE of PRACTICE FOR SYSTEM DESIGN, INSTALLATION AND SERVICING.

b) The power supply breakers for FDA system shall be marked “Do NOT DISCONNECT, Fire ALARM SUPPLY”

### 2.3 ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP)

In the event of a fire being reported from the smoke/heat detectors, activation of manual call points or sprinkler operation the sequence of alarm operation shall be as follows:

- a) If a fire condition is reported from a smoke detector then the evacuation will be done initially by the local integral sounder. Then after a certain delay ( to be agreed at the time of commissioning) the evacuation alarm shall be sounded on that fire zone only. If after 3 minutes the alarm has not been acknowledged, the Alarm shall also be executed on the other adjacent zones. All other zones shall be given the Alarm. The evacuation of the building shall be staged in phases to allow orderly movement of people.
- b) If a Manual Break Glass Unit is activated or a sprinkler flow switch is operated, then the evacuation shall be transmitted immediately to the affected fire zone plus the adjacent zones.
- c) Activation of the fire alarm system shall directly initiate some or all of the following to be agreed as a part of the overall fire engineering policy.
  - i) Signal to all elevator machine rooms indicating fire status (to control lifts)
  - ii) Release doors normally locked by Magnetic devices.
  - iii) Release doors normally held open by magnetic devices
  - iv) Shutdown mechanical equipment Ventilation plant.
  - v) Shutdown general exhaust fans
  - vi) Start up Smoke extract fans
  - vii) Start up exhaust make up fans
  - ix) pressurization fans dampers
  - x) Initiate alert signals to panels in the adjacent office tower
  - xi) Sprinkler valves, flow switches and other monitored valves shall be directly supervised by the fire alarm systems.
  - xii) These shall include but not limited to the following:
  - xiii) building Automation system.
  - xiv) Repeater Panel
  - xv) Security system etc.

### 3 FIRE ALARM SYSTEM COMPONENTS AND DEVICES

#### **FIRE ALARM CONTROL PANEL:**

The panel shall be modular multifunctional computer controlled having hot swappable Modular cards that functions as CPU/Loop card Galvanically Isolated and Network Card respectively.

De-centralized control and monitoring functions to be realized on the loop and spur. The panel shall be complete with, but not limited to, the following elements:

- TFT Visual display of 7" with capacitive keyboard for touch sensitive operation.
- Built-in-full numeric keyboard with function keys.
- USB port
- Input Power supply can be at 230V AC or 110 V AC
- Loop expandable from single loop to 4 loops (without additional PANEL Mainframe hardware)
- RS485 and NO/NC free programmable contacts.
- Key switch to prevent unauthorized operation of keypad.
- Integral sealed lead acid battery and charger, with 96 AH Battery Back up.
- For a failsafe power supply back up there shall be one more additional power supply accumulator, each accumulator shall have maximum capacity of 24V/48AH and the Power Supply Modules should be internally connected over ring shaped wiring so that if one of the Power Supply fails the other shall still perform.

Essential controls- Delay, panel reset, Audible alarm off, Disconnect master box, additional messages, verify/cancel fault buzzer. Fire Pre-Alarm, trouble, Disconnection lamps. Each lamp shall also have appropriate indication (Releasing systems activated, Master box, Delay, Verify, CPU failure, In operation normal condition & failure of Power supply/battery) simple menu driven function keys with password protection shall allow users to an extensive range of software based features such as:

- Overview
- Service
- Time functions
- Informations
- Last 10,000 system events
- Current fault and waring logs
- Interrogation of sensor cleanliness
- On/of, Enable/disable sensors, zones, sounders, interface unit channels.
- Status of detectors
- Alarm counters
- Printer on, off, line feed and test facilities.(Optional)
- All control buttons and keyboard shall be enclosed behind a lockable cover, up to 198 device capacity per 2.0km loop and a TTY/RS 485 communication option.



- In addition to the above, all other necessary controls, elements and accessories shall be included to provide a complete and efficient panel conforming to the requirements of DIN EN54/UL/VDs/LBP

#### LOOP PARAMETERS:

Individual loop circuits will be capable of accommodating the following.

- Up to a maximum of 198 addressable devices on 2.0 kms loop length.
- Shall be able to load addressable sounders cum speech Device directly on loop.
- Shall be able to load addressable Detector cum sounders cum speech Device directly on Loop.
- Up to 198 loop powered (Input/output) modules.
- Should have the ability to spur off the detection loop without using 'T' breaker devices, without any degradation.

#### REPEATER PANEL:

High- quality remote display and operating unit for Flexes FACP. System operation is interoperable and intuitive with a touch-sensitive 7" colored display. Individual access levels can be activated with a key code. Software addressing allows using the operating unit on the RS 485.

#### FIELD DETECTION DEVICES

- a) All analogue detectors and bases shall be provided by the same manufacturer of the control system. No other make of detectors will be permissible.
- b) All analogue detectors shall have real intelligence itself. This means the detector can make decision adapt to different environment condition and diagnose itself. They shall have decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory and integrated short line isolators. The detector bases for interfacing between the loop wiring and the detector head shall be manufactured by means of injection moulded ABC plastic colored white and shall not contain any electronics for addressing. The base fixings should be suitable for any industry standard BESA or conduct boxes. All bases (if required) shall include the option to provide a programmable relay output for interfacing providing dry contact for third party.
- c) All bases shall be provided with a plastic removable dust cover for protection during site construction as well as an IP rated sealing gasket to prevent dirt and moisture from entering through from the fixing surface.
- d) Each base shall include a lock and removal of locked detectors shall be achievable only through the use of the appropriate removal tool as specified by the manufacturer of the detectors. Detectors removal tools are to be handed over on completion of the contract as part of the spare parts to the client.
- e) Removal of a detector from its associated base shall not affect the continuity of the detection loop.
- f) The fire alarm manufacturer shall have the complete range of following analogue ADDRESSABLE detectors with decentralized intelligence as standard so as to meet the specific applications to the site.
  - a) Heat Detector (fixed & ROR temperature)

- b) Multi criteria Detector
- c) Dual angle Optical/heat detector or multi criteria detector
- d) Manual Call Points
- e) All of the above shall be compatible with the aforementioned base providing interchangeability between detector heads, without the requirement for switch settings. All detectors shall also have an integral short circuit isolator, which in the event of a single cable fault will isolate the “culprit” piece of cable and retain all devices on the loop operationally.
- f) Each detector shall possess two integral LED giving a red flashing indication for fire and green for normal operation. For remote locations, each detector shall be capable of connection to a remote LED unit by means of 2 core wire connection.
- g) Detectors shall be white and manufactured from ABS plastic. All electronics and associated sensing elements will be housed within this unit, these components being hermetically sealed to prevent their operation from being impaired by dust, dirt and humidity.
- h) The sensitivity of all detectors shall be adjusted from software. It shall be possible to programme detector sensitivity directly on the loop using interface with a laptop PC and appropriate programming software from manufacture.
- i) For MULTI SENSOR detectors, disablement of each sensor element shall be possible individually or for whole loop. Also this disablement feature shall be possible to have manually or time/event controlled.
- j) All detectors shall be provided with a plastic removable dust cover for protection during renovation work.

#### HEAT DETECTORS

Install as shown in the drawings. These shall comply with the requirements of EN 54: part 5 and shall be Vds/UL approved. This shall be dedicated heat only detector to provide fixed temperature heat as well rate of rise sensing. It should be fully compliant with EN54 part 5 to provide grades of AI.

DUAL ANGLE OPTICAL/HEAT DETECTOR or MULTICRITERIA detector having different sensitivity level

- a) Install as shown in the drawings. These shall comply with requirements of EN 54: part 5 & 7 and shall be Vds/UL approved. This device shall combine two individual sensing elements to provide excellent cover for both “ types” of fires. (Slow smouldering and fast free burning)
- b) OPTICAL SENSING: Shall be carried out by 1 infra-red LED transmitters across 1 separate Optical detection angles. The sensor shall process with single scattered light caused by entering the detection chamber of device, allowing the detector to differentiate between real smoke and non smoke particles e.g. steam& dust. Primarily to be used inside hotel Rooms.
- a) The optical measurement chamber shall be provided with latest developed blue LED sensor technology, enabling the detection of open fire, smoldering fires and

fires with high heat generation Invisible smoke sensing). These detectors shall be capable of identifying the TF1 & TF6 test fires described in EN 54-9 Specifications.

- b) These detectors shall be intelligent with time related signal analysis, signal correlation of sensor data & decentralized.
- c) To be used in control rooms/Data Centre.

#### MANUAL CALL POINTS:

- a) Install as shown in the drawings. The manual initiation devices shall be electrically compatible with all of the aforementioned detector types and shall be complete with all-electronic components and circuitry for an automatic safe addressable device. The manual call point shall have an inbuilt short circuit isolator and an inbuilt microprocessor to ensure a response time of less than 1 second.
- b) The MCP unit shall also handle all communication to the control panel. All electronic devices contained within the MCP shall be hermetically sealed so as to prevent damage from hostile environment conditions e.g.dust with minimum rating of IP43.
- c) The MCP operating voltage shall be 8-42 volts DC, RED similar to RAL 3020.If the MCP is located in public area a transparent cover shall be provided as a protection tp prevent inadvertent activation. MCP shall be available in two designs large & small for aesthetic purposes to architects.
- d) The MCP shall have an input facility to connect conventional devices. It should have an option of using either frangible glass following for complete removal upon operation or plastic.
- e) Panel resettable function. There shall be no text but SYMBOLS on the MCP (burning house/press to break)
- f) The device can be tested functionally without the need to either remove the front cover and/or breaking the glass, with a special test key (supplied as standard). The key shall insert the underside of the MCP ensuring easy access of the key at all times. These devices will comply fully with EN 54 part1.

#### FIELD ALARM DEVICES

- a) Electronic sounders, combined sounder/strobe and standalone strobes shall be loop powered for direct connection to the 2 core detection loop shall be electrically computable with all initiation devices. These wall mounted units shall be available in red or white and suitable for both indoor and outdoor applications with an ingress protection rating or IP31 and IP65 respectively.
- b) All electronic sounders, sounder/strobe and strobe only versions shall have alarm signals synchronized across all the detection loops of the fire alarm control panel.
- c) All alarm devices shall have a short circuit isolation devices provided as an integral component of the device.
- d) All sounders shall have a soft start feature controlled by the fire alarm panel, whereby a low initial volume can be set and then increased at a defined rate up to a maximum volume setting.
- e) All alarm devices shall be provided by the same manufacturer of the control system. No other make of detectors will be permissible. The Fire alarm

manufacturer shall have the complete range of following alarm devices with inbuilt in short circuit line isolators so as to meet the specific applications of the site.

#### INPUT/OUTPUT MODULES (Type B)

- a) Module shall offer monitored activation of external device whilst the correct activation is monitored within programmable response time of 0-600 sec. If activated external device does not respond within this time when a fault is reported, otherwise in case of correct function no message is present in the system.
- b) Maximum contact rating of 30V DC or AC/1A

#### Features:

- A. Flexible input power supply as 12V-24V DC or 230V AC
- B. Ext Devices such as Dampers/Roller doors/lifts/Machine pumps etc can be activated or De-activated with 0-600 sec as programmable response time.
- C. Compact housing with IP65 protection
- D. 2 Programmable relays with switching capacity of 230 V AC/4A Relay.

#### BATTERIES:

Batteries shall be provided and shall be the dry sealed lead-acid maintenance free (SMF) type. The batteries shall have ample capacity. With primary power disconnected, to operate the alarm system for a **period of 48 hours**. Following this period of operation via batteries. The batteries shall have ample capacity to operate all components of the system, including all alarm signaling devices in the total alarm mode for a **minimum period of 30 minutes**.

#### WIRING

All cables associated with fire Alarm installation shall be of **fire-resistant Coper 2 core 1.5 sq.mm armoured cable**. Cables shall comply with BS 6207 Part 1. The cable is to BS 6207: part 1 having, typically no more than 2 crores each core having 1.5 sq. mm cross sectional area, A red cover sheath (preferred for alarm applications), having continuous metal sheath encapsulation, Fire resistant tested to BS6387 categories CWZ.

#### 4 EXECUTION INSTALLATION

The entire fire alarm system shall be installed in accordance with DIN/BS EN54/NFPA Standards and manufacturer's approved shop drawings, written instructions and recommendations.

#### TESTING

Fire alarm system shall be tested in accordance to above standard regulations and approved laboratories and put into operation by the manufacturer of his authorized representative in the presence of Fire engineer. Fault and alarm conditions shall be simulated and all data and alarm indicators checked with full events recorded on system printer according to the testing procedure.

- 5. Check all switches in the Panel such as ON/OFF, silence, fault, fire, Isolate switch etc to ensure that all switches are functional.

6. To carry out functional test of the detectors, MCP, hooters, isolators under smoke condition in all floors at Hybank Towers, Annexe building and Gunfoundry buildings at LHO complex. Ensure location of all the detectors to be addressed after activation of fire alarm system.

7. Integration of the sub panels to be made with the Main panel located in the Fire Control Room.

8. Programming & Configuration if required to be done for the existing/ renovated cabins, staff/workstation area, hall etc. in all the three buildings.

10. Maintenance includes replacing the defective components with new components the such as Smoke detectors, hooters, modules, MCPs, Isolators, transformer, electronic components inside the panels such as motherboard, capacitor, IC, fuses, resistance etc. However, battery, cable, replacement of whole Control panel, sub panels are not covered in AMC. The new components should be of the same specifications and make or compatible with the existing system.

11. Detailed Report of functional test (Hard Copy) of Fire Alarm System to be submitted at the end of every quarter duly signed by the authorized person within week time before submission of the bill. Payments will not be made if the above said conditions are not complied with.

12. **Mandatory Submission:** The Company must submit the work completion certificate of estimated value of Addressable Intelligent Fire Alarm System from the Government/State Government/PSU/Banks/ Reputed MNC.

13 If Fire panel is suggested with Dongle/PC license then the vendor should handover Dongle/PC license to SBI for further configuration in the system without depending on Original Equipment Manufacturer/ Vender for the same.

### GENERAL CONDITIONS

1. The rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly the rates quoted by the contractor will be taken as correct and not the amount.
2. The tender document must be filled in English and all the entries must be made by the hand and Written in ink. If any of the documents are missing or un-signed, the tender should be considered invalid.
3. Earnest money amounting to **Rs. 30,000/-**.00 (Rupees Thirty thousand only) is to be deposited with the tender in the form of Demand Draft payable at Hyderabad and drawn **In Favor of “Assistant General Manager (P&E), LHO Amaravati” Payable at Hyderabad**” as otherwise the tender is liable for rejection.
4. The successful tenderer will have to pay an amount of initial security deposit, which should be 5% of the accepted value of the tender including the EMD, by means of D.D. in favor of **“Assistant General Manager (P&E), LHO Amaravati”, Payable at Hyderabad**, The initial security deposit is to be paid by the Contractor to Bank within 10 days of intimation to him of the acceptance of the tender. The initial security deposit will be invested with the bank for the duration of the contract period and will be returned to the contractor without any interest, after issue of the virtual completion certificate. No interest is allowed on the retention money.
5. The acceptance of a tender will rest with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete in any respect are liable to be rejected.
6. All compensation or other sums of money payable by the Contractor to Clients under the terms of this contract may be deducted from the security deposit, or from any sum that may be or may become due to the Contractor on any account whatsoever and in the event of the Security Deposit being reduced by reasons of any such deductions, the Contractor should within 07 days of being asked to do make good in cash or by cheque any sum which have been deducted from his security deposit.
7. Tender containing any condition leading to unknown / indefinite liability, are liable to be summarily rejected.
8. If at all any rebate(s) is/are to be offered the tenderer should first quote his rates strictly on the terms and conditions stipulated in tender document and then show separately rebate(s) offered specifying the conditions for such rebate(s). Failure to follow this procedure will render the tender liable to summarily rejection.
9. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

The tenderer should quote their (own) rates for undertaking the work.

10. The rates quoted in the tender should be all charges excluding GST. The GST will be paid extra as per the Government norms.
11. Time is the essence of the contract. The work should be completed in **06 weeks** from the date of the work order issued to the contractor to commence the work. The successful Contractor will have to give CPM/PERT chart of various activities of works to be done so that the work gets completed within the stipulated time. The chart should be submitted within 3 days from the date of acceptance of the tender.
12. Tenders for works should remain open for acceptance for a period of 90 days from the date of opening of tenders. If the tenderer withdraws his tender before the expiry of the stated period or makes any modifications in terms and condition of the tender which are not acceptable to the Bank, then the bank without prejudice to any other right or remedy is at liberty to forfeit the earnest money.
13. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that, after the work is awarded, he will have to enter into an agreement for each component with the competent authority in the bank.
14. The tenderer, apart from being a competent contractor must co-ordinate himself with other agencies at site.
15. The tenderer should visit the site to ascertain the working conditions and local authority regulations / restrictions if any and other information required for the proper execution of the work.
16. The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. Bank reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / before. Contractor will be paid for the actual work done at the site duly verified by the concerned official of the bank.
17. The unit price should be deemed to be fixed price. In case of extra items, a record of labour charges paid should be maintained and should be presented regularly to the Employer's for checking. The settlement will be made based on figures arrived at jointly and taking unit price given in the contract assigned to the successful Tenderer. In case of extra items where similar or comparable items are quoted in the tender, extra rates should be based on tender rates.
18. If the rate quoted by the contractor for any item / items are not workable or abnormally lower than the market rate, the bank may demand Bank guarantee from the contractor for satisfactory completion of these work. The bank guarantee amount will be not less than 50% of the estimated amount of the items for which the rates are not workable or abnormally low. This bank guarantee will be released after completion of these works (unworkable and abnormally low rated items) to

the satisfaction of the bank.

19. No employee of the Bank is allowed to work as a contractor for a period of 2 years of his/her retirement from Bank Services without previous permission of the Bank. This contract is liable to be cancelled, if either the contractor or any of his employees is any time to be such a person who had not obtained the permission of Bank as aforesaid before submission of the tender or engagement in the contractor's service.

20. Estimated Cost **Rs. 30,29,900.00 lakhs**

21. Contractor should not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of the delays may be, including delays arising out of modifications to the work entrusted to him or in any subcontract connected there with or delays in awarding contracts for other trades of the project or in commencement or completion of such works in obtaining water and power connections for construction purpose or for any other reason what so ever and the Employer should not be liable for any claim in respect thereof. The Employer does not accept liabilities for any sum besides the tender amount, subject to such variations as are provided for herein.

22. The successful tenderer is bound to carry out any items of work necessary for completion of the job if such instructions in respect of such additional items and their quantities will be issued in writing by the Consultants with the prior consent in writing of the Employer.

23. The contractor must bear in mind that the work should be carried out strictly in accordance with specifications made by the Bank.

24. The rates quoted in tender should also include electric consumption charges for power. If no power is available at site the contractor should have to make his own arrangement to obtain power connection and maintain at his expense an efficient service of electric light and power and should pay for the electricity consumed. The Employer should give all possible assistance to the contractor to obtain the requisite permission from the various authorities, but the responsibility for obtaining the same should be that of contractor.

25. Contractor should strictly comply with the provisions of safety code in addition all local rules and regulations.

26. The contractor should be responsible for the observance of all rules and regulations framed by the government under the contract labour act. The Employer should be entitled to deduct all losses, damages that he might suffer on account of non- observance of these rules by the contractor, from the amount payable to the contractor.

27. Time should be considered the essence of this contract. The entire work must be completed within **06 weeks** from the issue of the work order/commencement of



the work. If the completion of the work is delayed beyond two months, a penalty at the rate of 0.5% per week over the contract value will be imposed subjected to a maximum of 5%.

28. The successful tenderer should submit the phased programme of execution of different items of work within 3 days after receipt of acceptance letter.
29. Apart from the initial security deposit made as above, retention money should be deducted from progressive running bills @ 8% of the gross value of each running bill.
30. EMD will be refunded after completion of work and on Issue of virtual completion certificate by the Architect/Bank.
31. FSD / Retention money will be refunded as under.

50% of the total retention money will be released with final certificate of payment after removing all his material, equipment and store room from the site and balance 50% payment will be released after completion of defects liability period of 12 months within 14 days.
32. Before filling in the tender the contractor should check all the drawings and schedule of quantities and should get an immediate clarification from the employer / Consultants on item not clearly understood. No claims for any loss or compensation will be entertained on this account.
33. All the works should be carried out as per detail drawings and specifications or as directed by employer / Consultants
34. The rates quoted in the tender should be for the finished items of work. They should include all the charges labour, materials, transportation of material equipment, double scaffolding water and electric charges, tool and plants, marking out and cleaning of site, to do all things necessary to provide complete finished item for work consistent with the specifications attached to this tender document. The rates should be inclusive of all octroi duty, excise duty, packing and forwarding, loading or unloading or any other duties or fees levied by any government, public or local bodies except GST. The rates should be firm and should not be subject to exchange variations, labour conditions or any other conditions whatsoever.
35. The calculations made by the tenderer should be based upon the probable quantities of the several items of work which are furnished for the tenderer's convenience in the schedule of quantities ,but it must be clearly understood that the contract is not a lump sum contract, that neither the probable quantities nor the value of individual items nor the aggregate value of the entire tender will form part

of the contract and that the employer / Consultant do not in any way assure the tenderer or guarantee that the work would correspond to there to.

36. Adequate engineering and technical staff to be appointed at site. FIRE FIGHTING contractor should inform of their number and qualification. An Approval of employer / Consultant should be taken prior to appointing such technical staff on site.
37. The contractor should keep the tender submitted by him open for acceptance for a minimum period of three months from the date of its submission. When once the tender is accepted the rates quoted by the successful tenderer should be firm the variation in rates of any one or all the items on any account should not be allowed during the entire duration of the contract.
38. During the execution of work contractor must check the work with his drawings. The contractor should be responsible for all the errors in this connection and should have to rectify all the defects at his own cost, failing which the client reserves the right to get the same rectified at the risk and cost of contractor.
39. No claim for extra item or deviation from specification should be entertained unless the same is pointed out and accepted as such before the work is taken in hand or within 15 days of this work by the successful tenderer.
40. The contractor should comply with all bye- laws and sales tax regulations of local and other statutory authorities having jurisdiction over the works and should be responsible for the payment of all the fees and other charges and the giving and receiving of all necessary notices drawings and test certificates.
41. The successful tenderer should properly safeguard against damage or injury to the public and to any property or thing and should alone be responsible for any such damage and injury to any person or persons or thing arising in connection with it's execution of work .The successful tenderer should protect and hold harmless the employer against any or all claims for any such injury or damage.
42. The work in every respect during the progress and till final acceptance by the employer, including raw materials delivered to the site to be incorporated or used in Electrical items of the work by the successful tenderer at his own risk . Any loss or damage to any such material or work by the employer should immediately be replaced by the successful tenderer at his own expense.
43. The employer should have the right to direct the contractor to purchase and use the materials from any source for proper execution of work.

44. The employer / Consultant or their authorized representatives should have full power for inspecting the contractor's works or at any place from which the material is obtained. Acceptances of any such materials should no way relieve the contractor of his responsibility for meeting the requirements and /or analysis not called for in the specifications should be borne by the employer in case the material or work is found defective or of inferior quality .tests and /or analysis should be done in the laboratory approved by the client and the contractor should permit the employer/s and or the client's or their authorized representative to be present during any of the tests and /or analysis.

#### 45. INSURANCE

The contractor should indemnify the employer up to CAR Policy for each claims against all claims which may be made against the employer by any member of the public or the third party in respect of anything which may arise in consequence thereof and should at his own expense arrange to effect and maintain up to one month after the virtual completion with an office approved by the employer a policy of insurance in the joint names and deposit such policy or policies with the employer from time to time during the currency of this contract. The contractor should also indemnify the employer against employer against all claims which may be made upon the employer under the workman's compensation act or any other statute in force during the currency of this contract or at common law in respect of any employee of the contractor or any sub contractor and, should at his own expenses effect and maintain up to one month after virtual completion of the contract with the effect approved by the employer a policy or policies of insurance in the joint names of the employer and the contractor as aforesaid .The contractor should be responsible for anything which may exclude from the insurance policies above referred to and also for any other damage to any property arising out of and incidental to the negligent or defective carrying out of this contract

He should also indemnify the employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damage arising therefrom. The employer should be at liberty and is hereby empowered to deduct the amount of any damages, compensation caused, charges and expenses arising or occurring from or in respect of any such claims or damages from any sum or sums due or to become due to the contractor.

#### 46. WORKMAN AT SITE:

The contractor's workpeople should not be allowed to live on the site at any time throughout the contract nor to trespass beyond the limits of the site. The contractor will be held responsible for any acts of trespass by his workpeople.

#### 47. DIMENSIONS:

Figures dimensions are to be taken in preference to scaled dimensions in all cases. Before commencing any work the contractor should verify all measurements. If any discrepancies are found they should immediately be brought to the notice of

the Consultants.

#### 48. DISCREPANCIES

All the items shown in the Technical specifications or specifications are taken to be included in both. Any discrepancies, which occur in specifications, should immediately be brought to the attention of the Bank and clarification should be obtained.

#### 49. CUTTING AND MAKING GOOD.

Where it is found necessary to interfere with finished work in order to execute this contract, the contractor will be required to do all necessary work at his expenses including making holes in the floor, wall and ceiling etc. and after work, making good to the original. Only approved material should be used for accessories for fixing/ installation works. Wooden plugs will not be permitted. Holes should be formed with electric drills whenever possible. Structural members should not be cut or drilled without prior consent of the client.

#### 50. MAINTENANCE AND GUARANTEE

The whole of the work to be performed under this contract should be completed to the satisfaction of the Consultants / Employer.

The contractor without additional charge to the employer renew or replaces any works which prove faulty from workmanship or materials and fully maintain the whole installations for a period of 12 months after the commencement of a defects liability period of the main contract and a sum of 5% of the contract amount should be retained by the employer for this period.

#### 51. PREVENTION OF SPOIL DUMPING.

The contractor should take all reasonable steps to prevent spoil, rubbish, debris surplus materials etc.. arising from a work being dumped on an area other than a recognized or approved tipping area and the Contractor will be held responsible for and should indemnify the employer against any claim or loss arising there from.

#### 52. LEAVE PERFECT:

The Contractor should remove all rubbish and superfluous material from the site of the works with all reasonable speed from time to time and at completion. On no account should W.C' S or the employer's receptacles to be used for this purpose. The client reserves its right to clear contractors uncleared debris at contractors own cost without any reasons & not more than one notice will be given for this.

#### 53. SETTLEMENT OF DISPUTES AND ARBITRATION:

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of work or after the cancellation, termination, completion, or abandonment thereof should be dealt with as mentioned hereinafter.

i) If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Consultant or in case the contractor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contract or raise any dispute, the contractor should forthwith give notice in writing of his claim, or dispute to **The Assistant General Manager, Premises & Estate dept, State Bank of India, Local Head Office, Amaravati, Gunfoundry, Hyderabad – 500 0001. 040-23387234** and endorse a copy of the same to the Consultant, within 30 days from the date of disallowance thereof or the date of deduction or recovery, The said notice should give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor should not be entitled to raise any claim nor should the employer be in way liable in respect any claim by the contractor unless notice of such claim should have been given by the contractor to the **The Assistant General Manager, Premises & Estate dept , State Bank of India, LHO Amaravati, Gunfoundry, Hyderabad – 500 001. PH: 040-23387234** in the manner and within the time as aforesaid. The contractor should be deemed to have waived and extinguished all his rights in respect of any claim not notified to the

ii) **The Assistant General Manager, Premises & Estate dept , State Bank Of India, LHO Amaravati, , Gunfoundry, Hyderabad – 500 001. PH: 040-23387234** “should give his decision in writing on the claims notified by the contractor. The contractor may within 30 days of the receipt of the decision of the work.

iii) If the conciliation proceedings are terminated without settlement of the disputes, the contractor should, within a period of 30 days of termination thereof should give a notice to the concerned Assistant General Manager for appointment of an arbitrator adjudicate the notified claims failing which the claims of the contractor should be deemed to have been considered absolutely barred and waived.

iv) Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaid and all claims of the employer should be referred for adjudication through arbitration by the sole Arbitrator appointed by the Assistant General Manager. It will also be no objection to any such appointment that the

Arbitrator so appointed is a employer/bank Officer and that he had to deal with the matters to which the contract relates in the course of his duties as employers/bank Officer. If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole Arbitrator should be appointed in the manner aforesaid by the said Assistant General Manager. Such person should be entitled to proceed with the reference from the stage at which it was left by his predecessor.

It is a term of contract that the party invoking arbitration should give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of Arbitrator.

It is also a term of this contract that no person other than a person appointed by such Assistant General Manager as aforesaid should act as arbitrator.

The conciliation and arbitration should be conducted in accordance with the provisions of the arbitration & conciliation Act 1996 or any statutory modification or reenactment thereof and rules made there under.

It is also a term of the contract that if any fees are payable to the arbitrator these should be paid equally by both the parties. However, no fees will be payable to the arbitrator if he is a employer/bank Officer.

It is also a term of the contract that the arbitrator should be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims. The venue of the arbitration should be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator should, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any of the arbitrator) should be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof, should be paid and fix or settle the amount of costs to be so paid.

## **SPECIAL CONDITIONS**

### **1. General:**

1.1 These special conditions should be read in conjunction with the description of the item of work in the Bill(s) of Quantities, the particular Specifications, Local Statutory Regulations, Indian Standards Specifications/Codes and the drawings. All the above quoted documents should be considered supplementary to each other. However, in the case of conflict amongst the various provisions, the owner's and the consultant's opinion will be final and should be adopted.

1.2 The tenderer is advised to inspect the site to ascertain the nature of site, access thereto, local facilities for procurement of materials and working labour rates prevalent in the area, in fact all matters affecting his prices and execution of the work. The tender should be deemed to have full knowledge of the site and drawings whether or not he actually inspects them.

### **2. Rates**

2.1 The rates quoted should be deemed to allow for all minor extras and constructional details which are not specifically shown on drawings or given on the specifications but are essential in the opinion of the Engineer-in-charge to the execution of works to confirm to good workmanship and sound engineering practice. The Consultant/Employer reserves the right to make any minor changes during the execution without any extra payment.

2.2 The Banks decision to clarify any item under minor changes, minor extras and constructional details should be final, conclusive and binding on the Contractor.

2.3 The rates quoted by the Contractor should be net so as to include all requirements described in the contract agreement and no claim whatsoever due to fluctuations in the price of material and labour will be entertained.

2.4 The rates quoted by the Contractor should include for supplying materials and labour necessary for completing the work in the best and most workmanship like manner to the satisfaction of the Consultant/Employer and which in the opinion of the Consultant cannot be made better, and for maintaining the same.

**The rates should be complete in all respects also including cost of materials, erection, fabrication, labour, supervision, tools and plant, transport, sales and other taxes royalties, duties and materials, contingencies, breakage, wastage, sundries, scaffoldings, etc., on the basis of works contract. The rates quoted should exclude only GST.**

### **3.0 Materials:**

3.1 The Contractor should ensure to the satisfaction of the Consultant/Employer that the materials are packed in original sealed containers/packing bearing manufacturer's

markings and brands etc., except where the gross quantity required is a fraction of the smallest packing. Materials not complying with this requirement should be rejected.

### **3.2 Testing of Materials:**

a) When required by the Bank, the Contractor should provide all facilities at site or at manufacturer's works or in an approved laboratory for testing the materials and/or workmanship. All the expenditure in respect of this should be borne by the Contractor unless specified otherwise in the Contract. The Contractor should, when required to do so by the Bank should submit at his own cost, manufacturer's certificate of tests, proof sheets, mill sheets etc., showing that the materials have been tested in accordance with requirements of these specifications.

b) Neither the omission by the Consultant to test the materials nor the production of manufacturer(s) certificate etc., as aforesaid should affect the right of the Consultant to reject, after delivery the materials found unsuitable or not in accordance with the specifications.

### **4 Clarifications:**

4.1 The Clarifications required or discrepancies, if any, noted by the Contractor in the technical specifications, tender conditions etc. must be obtained well before tendering, failing which the decision of the Bank should be final and binding on the Contractor with regard to detailing and general acceptance of the Contract.

### **5.0 Rectification of Defects:**

5.1 Any defect in the work done or materials used in the works pointed out by the Consultant should be rectified within a week or such extended time as may be allowed in this failing which the Consultant at the risk and cost of the Contractors should be rectified the said defect.

### **7.0 Regulations & Standards:**

7.1 The installation should conform in all respects to Indian Standard Code of Practice for Addressable Smoke detection and fire alarm system, NFPA and UL/FM/VDS/ approval.

### **8.0 Shop Drawings:**

8.1 Before starting the work, the Contractor should prepare and submit to the Bank for the approval of detailed working drawings for the addressable smoke detection and fire alarm system layout etc. by Contractor within 7 days of signing of the contract.

### **9.0 Completion Drawings:**

9.1 On completion of the work and before issuance of certificate of virtual completion the contractor should submit to the consultant/Employer layout drawings drawn at approved scale indicating the complete fire fighting system "As Installed". These drawings should in particular, give the following information.



- (a) Routing of wiring.
- (b) Location of detectors, Manual call points, hooters Response indicator, isolators etc etc
- (c) Location of Main control Panel and sub panel

Five Sets of Blue Prints and One set of Drawings on RTF should be submitted after completion of work.

#### **10.0 Manufacturer's Instructions:**

10.1 Where manufacturers have furnished specific instructions, relating to the materials used in this job, covering points not specifically mentioned in the documents, these instructions should be followed in all cases.

#### **11.0 Completion Certificate:**

11.1 On completion of the Installation a certificate should be furnished by the Contractor counter signed by a licensed supervisor, under whose direct supervision the installation was carried out.

#### **12.0 Qualified Competent Supervision:**

12.1 The Contractor should employ competent fully licensed, qualified full time Engineer to direct the work of Fire installation in accordance with drawings and specifications. The Engineer should be available at all times on the site to receive instructions from Consultant in the day-to-day activities, throughout the duration of the contract. The foremen should co-relate the progress of the work in conjunction with all relevant requirements of the supply authorities.

#### **13.0 Sub Contractor:**

13.1 If the Main Contractor proposes to subcontract the part/ whole of the work, the sub contractor's credentials should be submitted and get the same approved before employment. The Sub contractor should be licensed to execute works.

### **7. SITE SAFETY REQUIREMENTS**

The Contractor, his Sub-Contractors and nominated sub-contractors, should comply with the safety precautions, protective measures, house keeping requirements, etc. The Client with due intimation should have the right to stop the work at site, if in his opinion proceeding with the work will lead to an unsafe and dangerous condition. The contractor should get the unsafe condition removed or provide protective equipment. The contractor should ensure that all workmen are aware about the nature of risk involved in their work and have adequate knowledge for carrying out their work safely.

The instructions issued herein are indicative and not exhaustive. Therefore the contractor should be responsible to ensure that adequate safety measures have been adopted in the course of execution of the contract in accordance with safety standards / statutory regulations, as applicable.

The contractor should be held responsible for non-compliance if any of the safety measures and delays, implications, injuries, fatalities and compensation arising out of such situations or incidents.

## 1. TRAFFIC

1.1 The contractor should organize operations by taking approval to use the existing roads, if any, from Client.

1.2 The contractor should exercise full care to ensure that no damage is caused by him or workmen, during the operation, to the existing water supply, sewerage, power or telecommunication lines or any other services or works. The contractor should provide and erect before construction, substantial barricades, guardrails, and warning signs. He should furnish, place and maintain adequate warning lights, signals, etc., as required by Client.

## 2. SAFE MEANS OF ACCESS

2.1 Adequate and safe means of access and exit should be provided for all work places, at all elevations.

2.2 Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short duration work as can be done safely from ladders. Ladder should be of rigid construction having sufficient strength for the intended loads and made of metal and all ladders should be maintained well for safe working condition. Suitable footholds and handholds should be provided on the ladder. The ladder should be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical).

2.3 Scaffolding or staging more than 3.5m above the ground or floor, swung or suspended from an overhead support or erected with stationary support should have a standard guard-rail properly attached, bolted, braced or otherwise secured at least 1m high above the floor or platform of such scaffolding or staging. The guardrail should extend along the entire exposed length of the scaffolding with only such opening as may be necessary for the delivery of materials. Standard railing should have posts not more than 2m apart and an intermediate rail half way between the floor and platform of the scaffolding and the top rail. Such scaffolding or staging should be so fastened as to prevent it from swaying from the building or structure. Scaffolding and ladder should conform to relevant IS specification (IS 3696-1966). **TIMBER/BAMBOO SCAFFOLDING SHOULD NOT BE USED.**

2.4 Working platforms of scaffolds should have toe boards at least 15cm in ht. to prevent materials from falling down.

2.5 A sketch of the scaffolding proposed to be used should be prepared prior to start of erection of scaffolding. Safety engineer should examine all scaffolds before using.

2.6 Safe means of access should be provided to all working platforms and other elevated working places. Every ladder should be securely fixed. No single portable ladder should be over 9m in length. For ladders, up to 3m in length the width between side rails in the ladders should in no case be less than 300mm. For longer ladders, this width should be increased by at least 20mm for each additional meter of length. Step spacing should be uniform and should not exceed 300mm.

2.7 Adequate precautions should be taken to prevent danger from electrical lines and equipment. No scaffolding, ladder, working platform, gangway runs, etc. should exist within 3 meters of any nu-insulated electric wire. Whenever electric power and lighting cables are required to run through (pass on) the scaffolding or electrical equipment are used, such scaffolding structures should have minimum two earth connections with earth continuity conforming to IS code of practice.

### 3. DEMOLITION

- a. Before any demolition work is commenced and also during the progress of the work the contractor should ensure that the power on all electric service lines is shut off and the lines cut or disconnected at or outside the demolition site.
- b. If it is necessary to maintain electric power during demolition operation, the required service lines should be adequately protected against damage.
- c. Persons handling heavy materials/equipment should wear safety shoes.

### 4. PERSONAL PROTECTIVE EQUIPMENT

All necessary personal protective equipment should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use. Also the contractor should take adequate steps to ensure proper use of equipment by those concerned. The personal protective equipment to be provided by the contractor are:

- (i) All persons employed at the construction site should use safety helmets.
- (ii) Persons engaged in welding and gas-cutting works should use suitable aprons, leather gloves and welding face shields. The persons who assist the welders should use suitable goggles. Protective goggles should be worn while chipping and grinding.
- (iii) All persons working at heights more than 4.5m above ground or floor and exposed to risk of falling down should use safety belts, unless otherwise protected by cages, guard railings, etc. In places where the use of safety belts is impractical, suitable net of adequate strength fastened to substantial supports should be employed.

### 5. LIFTING MACHINES AND TACKLES

5.1 Use of lifting machines and tackles including their attachments, anchorage and supports should conform to the following standards or conditions:

Lifting machines and tackles should be of good mechanical construction, sound material and adequate strength and free from any defects and should be kept in good repair and in good working order.

Every rope used in hoisting or lowering materials or as a means of suspension should be of good quality and adequate strength and free from any defect.

Every crane operator or lifting appliance operator should be properly qualified. No person under the age of 21 years should be in charge of any hoisting machine or give signal to operator of such machine.

In case of every lifting machine (and of every chain, ring, hook, shackle, swivel and pulley block used in hoisting or as means of suspension) the safe working load should be ascertained and clearly marked. In case of a lifting machine having a variable safe working load, each safe working load and the conditions under which it is applicable should be clearly indicated. No part of any machine or any gear referred to above in this paragraph should be loaded beyond the safe working load except for the purpose of testing. The safety engineer should approve this.

The safety engineer should note the safe working load. Regarding other machines, the contractor should notify the safe working load of the machine to the safety engineer, whenever he brings any machinery to site of work and gets it verified by the safety engineer.

Thorough inspection and load testing of lifting machines and tackles should be done by a competent person at least once every 2 months and records of such inspection and testing should be maintained.

5.2 Motors, gearing transmission, couplings, belts, chain drives and other moving parts of hoisting appliances should be provided with adequate safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced or lowered. Barricades should be erected around the place of hoisting the equipment(s).

## 6. WELDING AND GAS CUTTING

6.1 Welding and gas cutting operations should be done by qualified and authorized persons and as per IS specifications and code of practice.

6.2 Welding and gas cutting should not be carried out in places where flammable or combustible materials are kept and where there is danger of explosion due to presence of gaseous mixtures.

6.3 Welding and gas cutting equipment including hoses and cables should be maintained in good condition.

6.4 Barriers should be erected to protect other persons from harmful rays from the work. When welding or gas cutting is done in elevated positions, precautions should be taken to prevent sparks or hot metal falling on persons or flammable materials.

6.5 Suitable type of protective clothing consisting of fire resistant gauntlet gloves, leggings, boots and aprons should be provided to workers as protection from heat and hot metal splashes. Welding shields with filter glasses of appropriate shade should be worn as face protection.

6.6 Adequate ventilation should be provided while welding in confined space or while brazing, cutting or welding zinc, brass, bronze, galvanized or lead coated materials.

6.7 Welding and gas cutting should not be done on drums, barrels, tanks or other containers unless they have been emptied cleaned thoroughly and it is made certain that no flammable material is present.

6.8 Fire extinguishers should be available near the location of welding operations. Fire safety permit should be obtained for working at vulnerable areas and operating areas before flame cutting/welding is taken up.

6.9 For electric (Arc) welding the following additional safety precautions should be taken:

When electrical welding is undertaken near pipelines carrying flammables, such pipelines should not be used as part of earth conductor, but a separate earth conductor should be connected to the machine directly from the job.

Personnel contact with the electrode or other live parts of electric welding equipment should be avoided.

Extreme caution should be exercised to prevent accidental contact of electrodes with ground.

The welding cable should not be allowed to get entangled with power cables. It should be ensured that movement of materials does not damage the cables.

## 7. GRINDING

7.1 All portable grinders should be used only with their wheel guards in position to reduce the danger from flying fragments should the wheel break during the use.

7.2 Grinding wheels of specified diameter only should be used on a grinder – portable or pedestal - in order not to exceed the prescribed peripheral speed.

7.3 Goggles should be used during grinding operation.

## 8. HOUSE KEEPING

8.1 The contractor should at all times keep his work site, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment.

8.2 Welding and other electrical cables should be so routed as to allow safe traffic by all concerned.

8.3 No materials on any of the sites of work should be so stacked or placed as to cause danger or inconvenience to any person or the public.

8.4 At the completion of the work, the contractor should ensure removal from the work premises all scaffoldings, surplus materials, rubbish and all huts and sanitary arrangements used/installed for workmen on the site.

## 9. FIRE SAFETY

All necessary precautions should be taken to prevent outbreak of fires at the construction site. Adequate provisions should be made to extinguish fires, should they still break out.

Quantities of combustible materials like timber, bamboo, coal, paints, etc. should be the minimum required in order to avoid unnecessary accumulation of combustibles at site.

Containers of paints, thinners and allied materials should be stored in a separate room, which should be well ventilated, and free from excessive heat, sparks, flame or direct rays of the sun. The containers of paint should be kept covered and properly fitted with lid and should not be kept open except while using.

Fire extinguishers should be located at the construction site at appropriate places.

Adequate number of workmen should be given education and training in fire fighting and extinguishing methods

## 10. WORK IN RADIATION AREA

The contractor should follow the stipulated procedure regarding work in the radiation area and other works related with radiography.

## 11. MEDICAL FACILITIES

11.1 The contractor should arrange for medical aid and treatment for his staff and workers engaged on the work site including the first-aid facilities if they are not available at the project site.

11.2 First-aid appliance including sterilized dressing, cotton wool and antiseptic cream should be made available at readily accessible places at every work site. These should be maintained in good order under the charge of a responsible person.

11.3 At large work places, where hospital facilities are not available within easy reach of the work first-aid posts should be established. Ambulance availability should be identified during the entire period of work for attending to injury cases.

## 12. SAFETY COORDINATOR

The contractor should have a Safety Office or a Supervisor to be designated as a Safety Coordinator in order to specifically look into the implementation of different safety requirements of the site work. The person thus designated will in general co-ordinate on matters of safety and in particular ensure that the Safety Manual is complied with. His name should be displayed on the Notice Board at a prominent place at the work site.

## 13. REPORTING OF ACCIDENT

13.1 All accident leading to property damage and/or personnel injuries should be reported to the concerned authorities viz. Insurance Co. Police, Head Office, Regional Office, etc.

13.2 The contractor should also submit a monthly statement of accidents to the Client by 4th of every month showing details of accident, nature of injury including disability, days lost, treatment provided, etc., and the extent of property damage.

## 14. PUBLIC PROTECTION

The contractor should make all necessary provisions to protect the public. He should be held responsible for defense of every action of other proceedings at law that may be brought by any person for injury sustained owing to neglect of any precaution required to taken to protect the public.

## 15. OTHER STATUTORY PROVISION

All operations involving the transport, handling, storage and use of explosive should be as per the standing instructions and conform with the latest Indian Explosives Act and the explosives Rules. Handling, transport, storage and use of compressed gas cylinders and pressure vessels should conform to the latest Gas Cylinder Rules and Static and Mobile Pressure Vessels (Unfired) Rules. In addition, The Indian Electricity Act and Indian Electricity Rules - latest, the Atomic Energy Act, the Radiation Protection Rules - latest, Radiation Protection Manual of Nuclear Facilities and the Atomic Energy (Factories) Rules – latest, and various latest rules and Act related to mining should also be strictly complied with.

## 16. **GUIDELINES AND GENERAL PROCEDURES FOR SUPPLY AND USE OF ELECTRICITY AT SITE**

16.1 Following safety requirements should be complied with before the contractor uses the power supply.

16.1.1 The contractor should submit a list of licensed electrical staff to be posted at Site.

16.1.2 It should be the responsibility of the contractor to provide and maintain complete installation on the load side of the supply point with regard to the safety requirements at Site. All cabling and installation should comply with the appropriate latest statutory requirements given below and should be subject to approval of the Project Manager:

Indian Electricity Act.

Electricity (Supply) Act.

Indian Electricity Rules.

National Electricity Code.

Other relevant rules of Local Bodies and Electricity Boards.

The power supply should be regulated as per the terms and conditions of the supply of the respective electricity boards.

16.1.3 Where distribution boards are located at different places the contractor should submit schematic drawing indicating all details like size of wires, Over head and Cable feeders, earthing etc. The position and location of all equipment and switches should be given.

16.1.4 The contractor should make his own arrangement for main earth electrode and tapings thereof. The existing earth points available at site can be used at the discretion of Client with prior permission. Method of earthing, installation and earth testing results should conform to relevant I.S. Specifications (IS-3043).

16.1.5 All three phases' equipment should be provided with double earthing. All light fixtures and portable equipment should be effectively earthed to main earthing.

16.1.6 All earth terminals should be visible. No gas pipes and water pipes should be used for earth connection. Neutral conductor should not be treated as earth wire.

16.1.7 The contractor should not connect any additional load without prior permission of Client.

16.1.8 Joints in earthing conductors should be avoided. Loop earthing of equipment should not be allowed. However, taping from an earth bus may be done.

16.1.9 The entire installation should be subjected to the following tests before energization of installation including portable equipment: -

- b) Insulation resistance test.
- c) Polarity test of switches.
- d) Earth continuity test.
- e) Earth electrode resistance.

The test procedures and their results should conform to relevant standards.



16.2 Following guidelines are provided for general observations: -

**INSTALLATIONS:**

1. Only persons having valid wire man's license/competency certificate should be employed for carrying out electrical work and repair of electrical equipment, installation and maintenance at site. A qualified licensed Supervisor should supervise the job.
2. Electrical equipment and installations should be installed and maintained as to prevent danger from contact with live conductors and to prevent fires originating from electrical causes like short circuits, overheating etc. Installation should not cause any hindrance to movement of men and materials.
3. Materials for all electrical equipment should be selected with regard to working voltage, load and working environment. Such equipment should conform to the relevant standards.
4. The minimum clearance to be maintained for all overhead lines along roads and across roads should be as per the statutory requirements.
5. Grounding conductor of wiring system should be of copper or other corrosion-resistant material. An extra grounding connection should be made in appliances/equipment where chances of electric shock are high.
6. Electric fuses and/or circuit breakers installed in equipment circuits for short circuit protection should be of proper rating. It is also recommended that high rupturing capacity (HRC) fuses are used in all circuits. For load of 5 kW or more earth leakage circuit breaker should be provided in the circuits.
7. Wherever cables or wires are laid on poles, a guard wire of adequate size should be run along the cables/wires and earthen effectively. Metallic poles as a general rule, should be avoided and if used should be earthen individually. Anti climbing guards and danger notices should be provided on poles. Each equipment should have an isolating switch.
8. Wires and cables should be properly supported, and an approved method of fixing should be adopted. Loose hanging of wires and cables should be avoided. Lighting and power circuits should be kept distinct and separate.
9. Reinforcement rods or any metallic part of structure should not be used for supporting wires and cables, fixtures, equipment, earthing etc.
10. All cables and wires should be adequately protected mechanically against damages. In case the cable is required to be laid underground, it should be adequately protected by covering the same with bricks, Plain Cement Concrete (PCC) tile or any other approved means.
11. Using suitable cable glands should properly terminate all armoured cables. Using cable lugs/sockets should connect multi-stranded conductor cables. Cable lugs

should preferably be crimped. They should be of proper size and should correspond to the current rating and size of the cable. Twisted connections will not be allowed.

12. All cable glands, armoring and sheathing of electric cable, metal circuits and their fittings, metallic fittings and other non-current carrying parts of electrical equipment and apparatus should be effectively grounded.
13. All the Distribution Boards, Switch Fuse Units, Bus bar chambers, ducts, cubicles etc. should have MS enclosures and should be dust, vermin and waterproof. The Distribution Boards switches etc. should be so fixed that they should be easily accessible. Changes should be done only after the approval of the Project Manager.
14. The contractor should provide proper enclosures/covers for protection of the entire switchboard, equipment etc. against rain. Exposed live parts of all electrical circuits and equipment should be enclosed permanently. Crane trolley wires and other conductor, which cannot be completely insulated, should be placed such that they are inaccessible under normal working conditions.
15. Ironclad industrial type plug outlets are preferred for additional safety.
16. Open type distribution boards should be placed only in dry and ventilated rooms; they should not be placed in the vicinity of storage batteries or otherwise exposed to chemical fumes.
17. Isolating switches should be provided close to equipment for easy disconnection of electrical equipment or conductors from the source of supply when repair or maintenance work has to be done on them.
18. In front of distribution boards a clear space of 90 cm should be maintained in order to have easy access during an emergency.
19. Adequate working space should be provided around electrical equipment, which requires adjustment or examination during operation.
20. As far as possible electrical switches should be excluded from a place where there is danger of explosion. All electrical equipment such as motors; switches and lighting fittings installed in workroom where there is possibility of explosion hazard should be explosion proof.
21. All connections to lighting fixtures, starters or other power supplies should be provided with PVC insulate, PVC sheathed twin/three/four core wires to have better mechanical protection for preventing possible damage to equipment or injury to personnel. Taped joints should not be allowed and the connections may be made in looping system. Electric starter of motors, Switches should not be mounted on wooden boards. Only sheet steel mounting or iron framework should be used.

22. All the lighting fixtures and lamp holders should be of good quality and in good condition. Badly repaired or broken holders, etc. should not be used.
23. Only PVC insulated and PVC sheathed wires or armored PVC insulated and sheathed cables should be used for external power supply connections of temporary nature. Weatherproof rubber wires should not be used for any temporary power supply connections. Taped joints in the wires should not be used.
24. The bulbs/lamps used for illumination and testing purpose should have cover or guard to protect them from accidental breakage. Only 24 V supply system should be used for hand lamps etc. while working inside metallic tanks or conducting vessels.

### 16.3 OPERATION & MAINTENANCE

1. All persons, who work with electrical installation/equipment, should be aware of the electrical hazards, use protective devices and safe operational procedures. They should be given training in firefighting, first aid and artificial resuscitation techniques.
2. The contractor should instruct the workers in the proper procedure, specify and enforce the use of necessary protective equipment such as adequately insulated pliers, screw drivers, fuse pulleys, testing lamps and similar hand tools. Only wooden ladders should be used to reach the heights in electrical work.
3. No material or earthwork should be allowed to be dumped below or in the vicinity of the bare overhead line conductors.
4. Before any maintenance work is commenced on electrical installations/equipment, the circuits should be de-energized and ascertained to be dead by positive test with an approved voltage-testing device. Switches should be tagged or the fuse holders withdrawn before starting the work. Adequate precautions should be taken in two important aspects viz. a. That there should be no danger from any adjacent live parts and b. That there should be no chances of re-energization of the equipment on which the persons are working.
5. While working on or near a circuit, whenever possible the use of one hand may be practiced even though the circuit is supposed to be dead. The other hand may preferably be kept in pocket.
6. When it is necessary to touch electrical equipment (for example when checking for overload of motors) back of the hand may be used. Thus, if accidental shock were to cause muscular contractions, one would not 'freeze' to the conductor.

7. Operations of electrical equipment should be avoided while standing on wet floor or when hands are wet.
8. Before blown fuses are replaced, the circuit should be locked out and an investigation should be made for the cause of the short circuit or overload.
9. When two persons are working within reach of each other, they should never work on different phases of the supply.
10. When structural repairs, modification or painting work are to be undertaken, appropriate measures should be taken for the protection of persons whose work may bring them into the proximity of live equipment/circuit.
11. It should be ensured that the insulation and wire size of extension cords are adequate for the voltage and current to be carried.
12. While tapping electricity from the socket, plug top must be used. It should be ensured that no extension boards are overloaded while tapping. Only standard three pin plugs should be used for tapping electricity. Broken sockets/plugs should be replaced immediately with good ones. Only joints free cables should be used for connecting equipment/ apparatus.
13. Floors should be kept free from trailing electrical cables to avoid tripping hazard.
14. Power supply to the entire machines and lighting fixture should be switched off when not in use.
15. Temporary electrical connections should be removed as soon as the stipulated work is over. After completion of the works, the contractor should dismantle the distribution boards and the other facilities erected at site.
16. Unauthorized tapping of power by others from distribution boards under the control of the NCC should be prohibited at all circumstances. No flammable materials should be stored in any working area near the switchboards.
17. "MEN ON LINE" "DO NOT SWITCH ON" "DANGER" OR "CAUTION" boards as applicable should be used during maintenance works on the electrical equipment.

#### 16.4 PORTABLE ELECTRICAL EQUIPMENT

1. Portable electrical equipment should be regularly examined, tested and maintained to ensure that the equipment and its leads are in good order. Register should be maintained for inspection recording the testing dates and results of the equipment.
2. All portable appliances should be provided with three core cable and three-pin plug. The third pin of the plug should invariably be earthen. It should be ensured that the metal part of the equipment should be effectively

earthen.

3. All connections to portable equipment or machines from the panel/distribution board/extension board should be taken using 3 core double insulated PVC flexible copper wire in one length. No joints should be allowed in this flexible wire. In case single length of wire is not sufficient for a particular location then the supply can be tapped by providing another extension board comprising of switch and socket.
4. Flexible cables for portable lamps, tools and apparatus should be regularly examined, tested periodically and maintained to ensure safety.

Place:

Date:

Authorized Signature with stamp seal

### **3. Annual Maintenance Contract (AMC):**

- a) THE COMPANY shall repair and service the Smoke Detection & Fire Alarm System (addressable), as per standard code of practice i.e. IS: 2189-2010 at LHO Complex Amravati.
- b) THE COMPANY shall ensure repair & service of the system by skilled/trained technician only.
- c) THE COMPANY shall also carry out the Preventive Maintenance (PM) of the smoke detection and Fire Alarm System with a frequency of not less than one per quarter. This includes cleaning of all detectors by blower machine. General cleaning/ maintenance of Main Control Panel, Sub panel, hooters, MCPs, isolators etc.
- d) THE COMPANY to check visually to ensure that the all detectors are blinking.
- e) THE COMPANY to check all switches in the Panel such as ON/OFF, silence, fault, fire, Isolate switch etc to ensure that all switches are functional.
- f) THE COMPANY shall ensure functional test of the detectors, MCP, hooters, isolators under smoke condition in all floors at Hybank Towers, Annexe building and Gunfoundry building at LHO complex. Ensure location of all the detectors to be addressed in the Main Control Panel after activation of fire alarm system.
- g) THE COMPANY shall ensure to Integrate of the sub panels to be made part of integration with the Main panel located in the Fire Control Room.
- h).THE COMPANY shall ensure Programming & Configuration if required to be done for the existing/ renovated cabins, staff/workstation area, hall etc. in all the three buildings.
- i)THE COMPANY shall ensure Comprehensive maintenance including replacing the defective components with new components, such as Smoke detectors, hooters, modules, MCPs, Isolators, transformer, electronic components inside the panels such as motherboard, capacitor, IC, fuses, resistance etc. However, battery, cable, replacement of whole Control panel, sub panels are not covered in CAMC. The new components should be of the same specifications and make or compatible with the existing system.
- j) The parties shall make all reasonable endeavors to minimize delays, the parties shall in so far as may be practicable under the circumstances complete performance of their respective obligations hereunder.
- k)THE COMPANY shall submit the detailed report of functional test (Hard Copy) of Smoke Detection & Fire Alarm System at the end of every quarter duly signed by the authorized person within week before submission of the bill. Payments will not be made if the above said conditions are not complied with.

## **TERMS & CONDITIONS OF MAINTENANCE**

- 1 Annual Maintenance Contract (AMC) shall be carried out as per Is: 2189-2010 latest amendment if any, at SBI, LHO, Amaravati, Gunfoundry, Hyderabad
2. AMC shall cover four quarters.
3. Technicians entering the LHO buildings are required to obtain work pass one day before commencement of the maintenance of Addressable Intelligent Fire Alarm System.
4. The lodging of with respect to complaints of the Addressable Intelligent Fire Alarm System will be made through phone SMS WhatsApp (-----) and via email (-----) to your Company.
5. The technicians must ensure to restore the normalcy on breakdown call within 3 to 4 hours in working days and within 4/6 hours on holidays.
6. The maintenance work is to be carried out on Saturday/Sunday/ holidays declared by the Bank from 8 AM to 8 PM. However emergency work to be carried out on any day/time.
7. Payment: No advance payments will be made. The quarterly Payments will be made after satisfactory completion of preventive maintenance & testing of the Fire Alarm System at the end of each quarter after receipt of the report.
8. TDS will be deducted as per IT guidelines.
9. Both the parties will enter into an agreement on mutually agreed scope of work and terms & conditions of AMC of Fire Alarm System.
10. Penalty: Penalty will be imposed if the company fails to attend the AMC work or emergency calls. The penalty will be Rs 500/- per day which will be deducted from the quarterly payments.
11. All disputes shall be sorted out at the courts in Hyderabad only.
12. Bank will not be responsible for any injury, death of personal engaged by the Company, while working at Bank's premises. Company have to take insurance policy of their technicians who carry out the maintenance work. Company will be liable solely compensation for the persons for injury or death as per Government guidelines.
13. The Bank reserve the right to terminate the contract at any time after giving one-month prior notice.

I /we have read and agree to all the terms and conditions.

Place:

Date:

Signature of the Vendor with seal

## **INSTRUCTIONS TO ALL THE TENDERERS**

1. Submission of BIDs/Tender documents: The Price bid should be submitted online in the website <https://etender.sbi> through M/s. e-Procurement Technologies Ltd, the service provider approved by the bank for e-tendering. In addition, scanned copy of DDs for EMD should be submitted online in the website <https://etender.sbi>. **THE EMD ONLY SHOULD BE SENT TO US IN HARD COPY.**
2. The tender must obtain himself on his own responsibility and expenses, all information and data which may be required for the purpose of filing this tender document. The Tenderer is requested satisfy himself regarding the site conditions, transport and communication facilities, labour, the law and order situation, climatic conditions, local authority requirement, traffic regulations etc. the tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.
3. Rate quoted shall be excluding GST and the same shall be paid extra over and above the actual value of work, as applicable at the time of interim/final bill payment. L1 tenderer will be evaluated based on final amount excluding GST. As such, all the contractors are advised to quote rates excluding GST component.
4. Tender without EMD as prescribed shall summarily be rejected. EMD of unsuccessful tenderers will be returned / refunded within 3 days of award of Contract.
5. The successful tenderer shall be bound to accept the offer within 3 days of LOI in writing. In case of non-acceptance by L1 tenderer, EMD shall be forfeited.
6. If the offer is accepted, the contractor has to commence the work at the site immediately or when the site is handed over whichever is earlier.
7. Total security deposit shall be 5% of contract value which shall be retained from the final bill of the work. The same shall be released to the contractors after the successful completion of defects liability period as specified in the contract.
8. Additional Security Deposit (ASD)  
Additional Security deposit (ASD)/Additional performance Guarantee (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. For e.g, if a contractor is quoting 15% below the estimated cost put to tender (i.e. 85% of the estimate), then ASD of 5% of estimated cost is required to be obtained from the contractor (90%-85%). This clause will be applicable only for works costing more than Rs 25.00 lakhs (Estimate). However, ASD clause can be included in tender for works less than Rs 25.00 lakhs also with approval of



NIT/ Tender approving authority. The ASD will be returned / released after virtual completion of the project.

9. Work shall be completed in all respect within the stipulated project duration from the date of award of work or handing over of site whichever is later. Time is the essence of contract. Delay In completion shall lead to invoking appropriate penalty clause as per Bank's extant guidelines.

10. In case of delay without proper justification, Bank shall levy Liquidated damages @ 0.5% per each week of delay subject to maximum of 5% over final value of work.

11. Contractors should ensure strict adherence to the tender specifications and shall ensure prior approvals are obtained for all the samples from the Engineer In-charge before commencement of any work. Bill/invoice copies justifying basic rate of materials used shall be produced before installation.

12. The quantity specified in the schedule is only approximate and may vary on either side according to site conditions. However, no item shall be executed exceeding the estimated quantity without prior approval from Engineer In charge.

13. The payment shall be made based on actual measurement after satisfactory verification & completion of items of work.

14. Specification of relevant clause of NFPA/ NBC/CPWD shall be the baseline requirement to execute the items of the work.

15. Contractor shall ensure safety of other residents and properties of society. Any damages caused by the negligence of contractor while execution should be restored & made good by the contractor at his own cost and risk. The Earnest money will be retained in the case of the successful Tenderer within 7 days from the date awarding work to the successful Contractor.

16. The Tender will submit their Tender after carefully examining the whole of the Tender documents, conditions of Tender, Conditions of Contract, drawings, specifications, and all bill of quantities after inspecting the site.

17. Canvassing in connection with Tender is strictly prohibited and Tender submitted by the Contractors who resort to canvassing is liable to be rejected.

18. Tenderers not fulfilling any or all of the conditions prescribed, or which are incomplete are liable to be rejected. Bank reserve the right to accept, split or reject any tender in whole or in part without assigning for any reason.

19. All pages of the Tender document should be signed, and stamp affixed by the Successful Tenderer and only the successful tenderer should submit the Hard copies of Technical and Price bid at SBI office.

20. No part of the bill of quantities (or) drawing should be deleted.

21. Bank reserves the right to divide and distribute the work, floor wise/ section wise/ item wise and trade wise and this may please be noted by the Tenderer. In such cases the decision will be solely at the discretion of Bank. Tenderers are advised to ensure strict observance of commercial aspect of the Tender.

22. The successful Tenderer shall furnish a list of his relatives working with the Employer along with their designations and addresses.

23. No employee of the Employer is followed to work as a Contractor for a period of 2 years from his retirement from the service under the employer without the previous permission of the Employer. The Contract (awarded) is liable to be cancelled if either the Contractor or any of his Employees is found at any time to be such a person who has not obtained the permission, as afore said before submission of Tender, or engagement in the Contractor service.

24. Defects liability Period: 12 months from the date of 'Virtual Completion' certified by the Client / Architect.

25. The successful Tenderer will enter into Agreement with Bank as per the standard format within 7 days from the date of receipt of work order (or) the date of handing over the site whichever is later.

26. This Notice Inviting Tenders, Instructions to the Tenderers, General conditions of the Contract, Special Conditions of Contract, and safety Code and the duly completed will inter alia form part of the Agreement to be executed by the successful Tenderer with the Employer.

**Yours faithfully,**

**Assistant General Manager (Fire Safety)**

**Signature of the Tenderer with seal:**

**Address:**

**Date:**

## ARTICLES OF AGREEMENT

This agreement made the .....day of ..... between AGM/ DGM ,State Bank of India, -----(hereinafter called the Bank or SBI) which expression shall include the successors and assigns) of the one part and M/s. .... company / partnership for registered under the Indian Companies Act/ Partnership Act having its registered office..... (hereinafter called 'the Contractors' which expression shall include the present directors / partners and also the directors / partners from time to time as also their respective heirs, legal representatives, administrators and assigns) of the other part. WHEREAS the employer is desirous of execution of \_\_\_\_\_(Name of work)\_\_\_\_\_ and has caused drawings and specifications describing the works to be done prepared by Project Architects M/s \_\_\_\_\_ having their offices at \_\_\_\_\_ (hereinafter called "the Architect") AND WHEREAS THE SAID Drawings numbered as mentioned in the tender documents hereinafter mentioned and to be issued from time to time, the specifications and the Schedule of items and quantities have been signed by or on behalf of the parties hereto. AND whereas the contractors have agreed to execute upon and subject to the condition set forth herein and Schedule of items and quantities, General & special Conditions of Contract, specification etc. contained in the tendered documents including all correspondences exchanged by or between the parties from the submission of tender till the award of work, both letters inclusive, (all of which are collectively hereinafter referred to as "the said conditions"). The works shown upon the said drawing and /or described in the said specification and included in the schedule of Items and Quantities at the respective rates therein set forth amounting to the sum of Rs\_\_\_\_\_ (Rupees \_\_\_\_\_in words\_\_\_\_\_) as there in arrived at or such other sum as shall become payable there under (hereinafter referred to as " the said Contract Amount". NOW IT IS HEREBY AGREED AS FOLLOWS: 1. In consideration of the said Contract amount to be paid at the times and the manner set forth in the said Conditions, the Contractors shall upon and subject to the said conditions execute and complete the work shown upon the said drawings and described in the said specifications and the schedule of items and quantities. 2. The employer shall pay the Contractors the amount or such other sum as shall become payable, at the times and in the manner specified in the said conditions. 3. The term "the Architect" in the said condition shall mean the said "M/s \_\_\_\_\_" or in the event of their ceasing to be the Architect for the purpose of this contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Employer, not being a person to whom the Contractor shall object for reasons considered to be sufficient by the Employer provided always that no person or persons subsequently appointed to be Architect under this contract shall be entitled to disregard or over rule any previous decisions or approval or direction given or expressed in writing by the architect for the time being. MANUAL OF INSTRUCTIONS ON PREMISES MATTERS- FEBRUARY 2025 227 | P a g e 4. The said conditions and appendix thereto shall be read and construed as forming part of this agreement, and the parties hereto shall respectively

abide by / submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained. 5. The plans, agreement and documents mentioned herein shall form the basis of this contract. 6. This contract is neither a fixed Lump sum contract nor a piece work contract but is a contract to carry out the work in respect of the entire project on item rate basis to be paid for according to actual measured quantities at the rates contained in the schedule of quantities and rates or as provided in the said conditions. 7. The Bank / Employer reserves to itself the rights of altering the specifications and nature of work by adding to or omitting any item of work or having portions of the same carried out without prejudice to the contract. 8. Time shall be considered as the essence of this contract and the contractor here by agrees to commence the work soon after the site is handed over to him or from the 14th day after date of issue of formal work order as provided for in the said conditions of contractor whichever is later and to complete the entire work within \_\_\_\_ (period of contract) months subject never the less to the provisions for extension of time. 9. All payments by the Employer under this contract will be made only at \_\_\_\_\_. 10. Any dispute arising under this Agreement shall be referred to arbitration in accordance with the stipulations laid down in the tender. 11. That all the parts of this contract have been read by the contractor and fully understood by the contractor. They further agree to complete the said work to fullest satisfaction of architect / Employer. 12. IN WITNESS WHEREOF the Employer and the contractors have set their respective hands to these presents through their duly authorized official and the said two duplicates hereof to be executed on its behalf of the day and year first herein above written.

Signed on behalf of the  
STATE BANK OF INDIA

Signed-on behalf of the  
CONTRACTORS

In the presence of: :

In the presence of:

1. Signature:

1. Signature:

Name:

Name:

Address:

Address:

In the presence of:

In the presence of:

2. Signature:

2. Signature:

Name:

Name:

Address:

Address:

**Price Bid**

SR No	Addressable Intelligent Fire Alarm System	Unit	Quantity	Rates excluding GST (INR)	Total Amount
1	Supply, Installation, testing & commissioning of UL/FM/Vds/EN/LPCB approved microprocessor based intelligent addressable 4 loop Main fire Alarm Panel expandable to 2 loops having microprocessor CPU and display of 7" capacitive TFT screen with loop capacity of minimum 198 detectors (99)/ Devices (99). Touch sensitive keyboard. The panel shall be soft addressable type. The panel shall be able to give pinpoint location of all fire/fault conditions. Further the panel must be able to automatically switch off respective control switches whenever any alarm is triggered. The panel shall have inbuilt rectifier, loop cards, provision for external & internal printer (if required). LCD unit to indicate fire/fault signal with address and analog out, complete in all respects, integral SMF lead acid with sealed cells of 24 V capable of battery backup of 24 hours in Normal Condition and 30 min in alarm condition with integral battery charger complete as required and as per technical specifications, NFPA-13 standards. The FACP shall have BACnet over TCP/IP card to integrate with building management system. It should be able to integrate with public address system on relay basis. Make: Notifier/Morley/Siemens only.	Nos	01		
2	Supply, Installation, testing & commissioning of UL/FM/Vds/EN/LPCB approved microprocessor based intelligent addressable 2 loop Sub Fire Alarm Panel expandable to 1 loop having	Nos	02		

	microprocessor CPU and display of 7" capacitive TFT screen with loop capacity of minimum 198 detectors (99)/Devices9((99). Touch sensitive key board. The panel shall be soft addressable type. The panel shall be able to give pin point location of all fire/fault conditions. Further the panel must be able to automatically switch off respective control switches whenever any alarm is triggered. The panel shall have inbuilt rectifier, loop cards, provision for external & internal printer (if required). LCD unit to indicate fire/fault signal with address and analog out, complete in all respects, integral SMF lead acid with sealed cells of 24 V capable f battery backup of 24 hours in Normal Condition and 30 min in alarm condition with integral battery charger complete as required and as per technical specifications, NFPA-13 standards. The FACP shall have BACnet over TCP/IP card to integrate with building management system. It should be able to integrate with public address system on relay basis. Make: Notifier/Morley/Siemens only.				
3	S/I/T/C of UL/FM/Vds/EN/LPCB approved Analog addressable intelligent multi sensor detector with single inbuilt optical smoke ensures with scattering light angles eliminating false fire signatures as well as additional heat detector sensor with decentralize intelligence, soft addressable photo thermal type with inbuilt fault isolator complete with base as required. Make: Notifier/Morley/Siemens only	Nos	10		
4	S/I/T/C of UL/FM/Vds/EN/LPCB approved Analog addressable intelligent detector with single inbuilt optical smoke ensures with scattering light angles eliminating	Nos	462		

	false fire signatures with soft addressable photo thermal type with inbuilt isolator complete with base as required. Make: Notifier/Morley/Siemens				
5	S/I/T/C of UL/FM/Vds/EN/LPCB approved intelligent addressable type rate of rise heat detector with inbuilt fault isolator and operating temperature range 20 to 50 deg C complete with base as required for mounting on surface/on false ceiling/below false floor. Make: Notifier/Morley/Siemens only	Nos	15		
6	S/I/T/C of UL/FM/Vds/EN/LPCB approved loop powered addressable Manual Call Point soft addressable type with in built fault isolator suitable for wall/column mounting. Make: Notifier/Morley/Siemens	Nos	35		
7	S/I/T/C of UL/FM/Vds/EN/LPCB approved loop powered notification devices (Hooter with strobe) The Strobe shall have multiple selectable candela setting up to 110 ccd configure and selected from the FACP. The hooter cum strobe unit shall deliver out put up to 94 db, suitable for wall/column mounting. Make: Notifier/Morley/Siemens	Nos	30		
8	S/I/T/C of UL/FM/Vds/EN/LPCB approved Addressable Relay Modules having paired combination to take care of 3 <sup>rd</sup> party devices activations like access control security system etc. all these devices have inbuilt isolators. Make: Notifier/Morley/Siemens only	Nos	10		
9	S/I/T/C of Response Indicator Make: Notifier/Morley/Siemens only	Nos	55		
10	Supply and fixing of 2 core x1.5 sq.mm multistrand COPPER armoured FRLS RED Colour, mylan shielded screened cable, complete with connections etc as required	mtrs	5300 meters		

	Make: Polycab/Finolex/Havels etc only				
11	Removing old addressable Fire Alarm Panel, Sub panels-2 nos , Smoke detectors-470 nos , Hooters and cabling etc of the existing Addressable Fire Alarm System	1job	Lumpsum		
12	Annual Maintenance Contract (Non-Comprehensive) of addressable Intelligent Fire Alarm System after completion of warranty period one year.				
12.1	AMC for First Year		Warranty		
12.2	AMC for Second (2 <sup>nd</sup> ) year	1job	Lumpsum		
12.3	AMC for Third (3 <sup>rd</sup> ) year	1job	Lumpsum		
12.4	AMC for fourth (4 <sup>th</sup> ) Year	1job	Lumpsum		
12.5	AMC for fifth (5 <sup>th</sup> ) Year	1job	Lumpsum		
13	Total				

Note: Lowest vendor (L1) will be finalized based on total amount (Sl.No.13) only. i.e. including AMC amount up to 5<sup>th</sup> Years.

Place:

Date:

Signature of the Vendor with seal