



**Technical Specification and PQR for Fire Detection and Alarm Control System
against enquiry number 2780019E/11.04.2018**

SL	DESCRIPTION	QTY	Quoted/Not Quoted
01	Four Zone fire Detection & Alarm Control panel with 24 V 7 Ah battery backup	02 set	
02	Smoke Detector with response indicator	30 No	
03	Manual call point with hammer & chain assembly	04 No	
04	Electronic Hooter	04 No	
05	Auto Dialler	04 No	
06	2 C X 1.5 mm ² copper Armoured Cable	200 Mtr	
07	Installation and commissioning of full equipment with laying of cable	02 Set	

Note: All items (SI no 01 to 07) are to be procured from single vendor.

SPECIFICATION FOR AUTOMATIC FIRE DETECTION AND ALARM SYSTEM :

1. System standards : The Fire alarm system should be as per IS 2189
2. No. of zones : The system required is minimum Four zones
3. Compatibility : The system should compatibility for all types of fire detectors, call points and
Auto dialer
4. Power : The system power supply should be 180 V to 250 V A.C. 50 Hz
5. Standby power : The system should supplied with standby power supply (2 x 12 V D.C. Battery backup)

6. The following visual indication should be available in the system:

- a : A.C ON
- b :SYSTEM BATTERY
- c : A.C. FUSE
- d : D.C. FUSE
- e :BATTERY FUSE
- f : BATTERY ON CHARGE
- g : LOW BATTERY
- h : BATTERY DISCONNECTED
- i : ISOLATION OF ZONE
- j : FIRE/ALARM
- k : DETECTORS OPEN
- l : DETECTORS SHORT

7. The following Visual and Audible indications should available in the system.

- a: FIRE - AUDIBLE BY HOOTER
- b: LOW BATTERY - AUDIBLE BY BUZZER
- c: OPEN AND SHORT OF DETECTORS ARE SHOULD INDICATED BY AUDIBLE BY BUZZER
- d: MAINS FAILURE SHOULD ALSO INDICATED BY AUDIBLE BY BUZZER

8. The sound level of the hooter should be of minimum of 90 dB.

9. The cabinet used in this system should be made up of 16 GAUGE SHEET STEEL, DUST AND VERMIN PROOF, WALL / FLOOR MOUNTABLE TYPE WITH IP 52 DEGREE OF PROTECTION.

TECHNICAL SPECIFICATIONS FOR AUTO DIALER UNIT USED IN THE AUTOMATIC FIRE DETECTION AND ALARM SYSTEM

1. The Auto dialer unit used in this system should activate through wired emergency switches and also by remote.
2. The unit used should have facility for connection of minimum of Ten (10) telephone numbers and minimum of 32 digits number each.
3. The display used in this unit should LCD with 12 characters.
4. The unit used in this system should have facility for two different natures of emergencies of voice message and the time of messages (length of the message) of one minute each.
5. The dialing method used should be of for both pulse & tone



6. The message play time should be of minimum one minute.
7. The following indication should indicate:
 - a. Power on
 - b. Fire activation
 - c. Emergency activation
8. The Memory system used in this unit should be of Non-Volatile Memory (EEPROM) and the circuit used in this unit should be of state of the art (SOLID STAT, CMOS).
9. The choice of calling cycle should be of minimum of two (02) times or infinite times until unit is reset.
10. The unit should have detection status of telephone line for takes priority on incoming & outgoing calls.
11. The unit should have a facility for internal playback speaker for voice message and visual LCD display for checking the telephone numbers.
12. The unit should have facility for remote indication in emergency switch to indicate dialing through AUTO GUARD on activation.
13. The unit should be of user friendly and should have facility for user itself enters nos. voice message.
14. The unit housing should M.S. box with Stoving Paint and lockable.

Pre-Qualification Criteria

PQR	Proof Submitted /Not Submitted
1. Supplier may be Manufacturer/Authorized Distributor/Trader. 2. Supplier must enclose at least one purchase order copy/invoice copy for Supply, Erection and Commissioning of <u>Minimum one number of Four Zone Fire Detection Alarm Control</u> to their previous customer in last two years as on the date of tender opening along with their technical bid. 3. Purchase order copy not accompanied with technical bid will not be considered for price bid opening.	

Signature and Office Seal of Vendor



Price Bid Format for enquiry number 2780019E/11.04.2018

SL	DESCRIPTION	QTY	Unit Price in INR	Total Price (Unit x Quantity) in INR
01	Four Zone fire Detection & Alarm Control panel with 24 V 7 Ah battery backup	02 set		
02	Smoke Detector with response indicator	30 No		
03	Manual call point with hammer & chain assembly	04 No		
04	Electronic Hooter	04 No		
05	Auto Dialler	04 No		
06	2 C X 1.5 mm ² copper Armoured Cable	200 Mtr		
07	Installation and commissioning of full equipment with laying of cable (sl no 01 to 06)	02 set		
08	GST on Items (sl no 01 to 06)			
09	GST on Services (I&C- sl no 07)			
10	Grand Total from sl no 01 to 09			

Note: All items(Sl no 01 to 07) are to be procured from single vendor.

Signature and Office Seal of Vendor