

**NOTICE INVITING OFFERS FOR INSTALLATION & UP GRADATION OF ELECTRONIC  
ALARM SYSTEM IN BRANCHES UNDER LUCKNOW ZONE.**

UCO Bank, Zonal Office, Lucknow desires to invite sealed offers from reputed vendors for supply and installation of Integrated type Digital Fire Cum Burglar alarm systems in branches under Lucknow zone. The eligible empanelled vendors may collect "Tender Document" from UCO BANK, ZONAL, LUCKNOW. The document can also be downloaded from the Bank's website ([www.ucobank.com](http://www.ucobank.com)) from 18/02/2016 to 03/03/2016. Applications are to be submitted sent in envelope super-scribing with "Tender for integrated Security Alarm System" to the undersigned into two sealed covers by 1500 Hrs. on or before 3<sup>rd</sup> March 2016 at UCO Bank, Zonal office, 1<sup>st</sup> Floor, B-1/22 Vineet Khand, Gomtinagar, Lucknow-226010

  
Zonal Manager

**INVITATION OF BIDS FOR INSTALLATION OF INTEGRATED TYPE OF ELECTRONIC ALARM SYSTEM  
(BURGLAR CUM FIRE) IN OUR LUCKNOW ZONE**

Applications are invited from reputed vendors for installation of integrated type of Alarm system at our branches of Lucknow zone of UCO Bank. Only those firm which full-fill following criteria will be considered for empanelment:-

- 1) Reputed vendor specialized in providing Security Gazettes to Nationalized Banks for at least last 03 Years as on 31-12-2015.
- 2) Ability to undertake all security Gazettes related installation work for all branches throughout the zone.
- 3) Have ability to provide hassle free service.
- 4) Ability to commence service within 15 days from date of placement of order
- 5) Vendor should have local office in Lucknow.
- 6) Vendor should have a credible supervisory infrastructure and network for provision of maintenance of security Gazettes as also for follow up with law enforcing agencies
- 7) Vendor should provide the latest income tax assessment order and PAN Number
- 8) Vendor should have a certificate of registration with Registrar of Companies or Registrar of Firms or have letter Proprietorship
- 9) Vendor should provide the latest Audited Balance sheet
- 10) Vendor should be registered with shops & Establishment Act and provide latest certificate for ESI Corporation
- 11) Vendor should be registered under the appropriate authority for service tax
2. The vendor should meet the eligibility criteria as per available at annexure I of this advertisement

Applications are to be sent in envelope super-scribing with "Tender for integrated Security Alarm System" to the undersigned into two sealed covers by 1500 Hrs. on or before 3<sup>rd</sup> March 2016 as under:

- (a) **Part -1:-** Technical bids to include profile of the company, list of major existing clients, registered number and sales tax details.
- (b) **Part-2:-** Net rates (Inclusive of all taxes and levies) items wise be maintained
3. **Part-II** will be opened only if Bank is satisfied with Part-1. Bank serves the rights to reject any/all bids without assignment any reason thereto.
4. For any quarries vendors may contact the undersigned on working days between 11 A. M. to 04 P. M.

**Manager Security**

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## DIGITAL FIRE & ELECTRONIC ALARM SYSTEM

### GENERAL

The fire and electronic alarm system consists of control panel which is wired to various sensors like magnetic contact switch, vibration sensors, smoke sensors, heat sensors, panic switches and PIR sensors etc. The type and number of sensors to be used depends on the size of area to be protected and the location of possible intrusion.

The control panel takes the decision of an alarm condition after getting the signal from the various sensors. The control panel has capability to interface with the external devices like motorized sirens / hooters or the observation system lights etc. The entire system operation is fully automatic under microprocessor technology. The daily operations, user merely needs to just arm and disarm the system by turning a mechanical key/electronic switch.

The system shall be Electronic Regional Laboratory certified.

### The control panel

The fire and electronic alarm system control panel is the heart of the entire security system. It shall monitor all system sensors and control alarm conditions. The control panel shall have various visual indications on the front panel by LEDs. If the alarm condition occurs the control panel should display which sensor caused alarm. The panel should also display the mode of operation system i.e. arm / disarm.

Control panel should have 12 V - 7 Amp/ hr automatically rechargeable sealed maintenance free batteries. The control panel should have electronic switch / mechanical key for performing day to day operation i.e., day mode and night mode.

Control panel should be LCD based 16+1 fully programmable zone control panel with built in GSM, speech dialer with automatic arming and disarming and remote access through telephones. The control panel should be microcontroller based 16 zones programmable as delay, immediate, panic or fire along with one temper zone. The system should have separate remote key pad with 16X4 LCD display. There should be separate zone for fire detection. The system should be programmable for the no. of seconds after which the panel response. Automatic bypassing immediate and 24 hours active zone facility. Panel can be armed and

disarmed by telephone. Code can be changed through telephone. Any 8 electrical devices can be switched on or switched off through telephone.

## Features

- Arm and disarm mode
- Easy for operation just by mechanical key/electronic switch
- Battery backup for 36 hours
- Automatic switchover to battery in case of AC power failure
- Automatic battery charging once the AC power is restored
- Low battery indication
- Audio-visual alarm indication
- Different tones for fire and intruder alarm conditions
- Selectable delay time
- Close end circuits
- Speaker wire cut detection for all sensors and hooters/speakers/siren
- Supports combination of hooters/speakers/siren
- Open/short circuit detection on fire zones by audio-visual indication
- Provision for interface with automatic telephone dialer/observation system etc. that to separately for fire and intruder alarm condition
- ERTL certified

## Input Devices

### ✓ 1. Magnetic contact switch

Magnetic contact switch consists of two parts. One consists of magnet and other contains the reed switch. The magnet is mounted on the door (which moves) since no wire connections are required for connecting magnet. The reed switch part is mounted on the door frame where the wire connections are made. When the door is near the frame i.e., the door is closed the reed switch activates. When the door is opened the reed switch deactivates. The deactivation breaks the reed switch contact which is detected by the control panel. Generally the range of the door sensor is ½ inch.

### ✓ 2. Vibration Sensor

The vibration sensor detects vibration since the contact inside the sensor break due to vibration. When the sensor is mounted on the walls/doors/windows any attempt to break will be detected by the sensor. Please note that if vibration detectors are to be connected they must be connected in 24 hours zone.

### 3. Panic Switch

Panic switch should be either hand operated or foot operated. In case of any threatening from the intruder / miscreants or to alert the people around the switch can be operated by pressure of hand/foot.

### 4. Smoke Detector

The photo thermal smoke sensor range gives protection against both slow and fast developing fire and is an environmentally acceptable alternative to an ionization detector. It is a true multi criteria unit. The output level from both the optical chamber and the thermistor are continually monitored by the on board processor, using algorithms developed specially for the unit. An alarm signal is only enable in the detector once the processor is satisfied that an incipient fire has been detected. By using a combination of inputs the incidents of nuisance alarm is reduced while at the same time the response time to an actual fire is also improved. The system should have designed to be highly tolerant to the long term build up of the dust and other airborne contaminants. The detector system shall have features like automatic drift compensation and alarm sensitivity adjustment.

### 5. Heat Detector

A heat detector is a fire alarm device designed to respond when the convected thermal energy of a fire increases the temperature of a heat sensitive element. The thermal mass and conductivity of the element regulate the rate flow of heat into the element. All heat detectors have this thermal lag. Heat detectors have two main classifications of operation, "rate-of-rise" and "fixed temperature."

### 6. PIR Sensor

PIR sensor should be dual element pyroelectric sensor with latest technology digital signal processor (DSP). PIR should have pet immunity up to 25 Kg. Detection range of PIR should be 15 mts with 110 degree angle. The PIR sensor should have the sealed optics and selectable pulse count and excellent RFI and EMI immunity. Activation of PIR sensor will be just through walk test.

## Output Devise

### ✓ Hooter

Hooter is the external devise like multi tone electronic sounder can be connected to the control panel. Minimum 8 different tones shall be programmable using DIP switches. The hooter shall have a sound pressure

level of 100 dB approximately, IP 54 environmental protection. The hooter activates in alarm condition. Maximum of 2 speakers or their combination can be hooked to the system. Individual hooter must be of 4 ohm impedance.

## 2. Motorized siren

Motorized siren should be heavy duty and robust to withstand humidity and heat. It should be in suitable protective cage. It should be connected with the main control panel and direct electrical line. The control panel will activate the connection of motorized siren with electricity. The sound of motorized siren should travel 1 Km in ambient noise condition.

## 3. Automatic telephone dial up

ATD require to dial pre-programmed telephone number on receipt of the trigger inputs by alarm system. It should work on GSM and also be capable of sending pre-coded / recorded SMS on mobile. The features of ATD should be as follows:

- a. Tone and pulse dialing mode
- b. 10 programmable phone nos. up to 12 digit
- c. 2 separate messages for 2 different inputs like intruder and fire alarm
- d. Verification by playback recorded messages during programming
- e. Provision of parallel telephone instruments / GSM SIM
- f. Provision of programming from parallel telephone instruments as well as remote telephone instruments / mobile phone
- g. Ring detection before connecting to ATD
- h. Programmable password for entering mode
- i. Retention of programmed data in case of power failure
- j. Highest priority for condition dialing

Technical Specification of Integrated Alarm system

SI NO.	Technical Specification compliance for fire and Electrical Intruder Alarm System (Component and Description of Specification)	Compliance Yes/ No
	<b>Control Panel</b>	
1	LCD based minimum 12+1 fully programmable zone panel with built in GSM speech dialer with automatic arming and disarming with remote access through telephone	
2	Microcontroller based	
3	Minimum 12+1 Zones	
4	Inbuilt GSM based speech and SMS dial up	
5	Minimum 12 zone programmable as delay immediate panic or fire	
6	One temper zone	
7	Separate remote key pad with 12x4 LCD display or more	
8	Separate zone for the fire detection and provision for connection of fire alarm system	
9	Automatic arming and disarming facility	
10	Can be operated through mobile or telephone line	
11	Built in battery back up	
12	Zone omitting facility	
13	Silent arming and night mode arming	
14	Intrusion lock with time and date	
15	Power failure indication	
16	Blow fuse indication on LCD display	
17	Multiple sounder out put	
18	Distinct interrupted sounder out-put for fire alarm	
19	Walk test mode	
20	Independent entry delay time 2 Sec to 240 Sec	
21	Sounder time 2 to 20 minutes	
22	Speker wire cut detection for all sensors and hooters	
23	Battery back up for 36 Hours	
24	Automatic battery charging and switch over	
	<b>Smoke sensor and Heat sensor</b>	



1	Automatic drift compensations	
2	Dust tolerant chamber provides optimum detection performance	
3	Sensitivity remote programmable	
4	Digital addressing capability	
5	Selectable blink	
6	Photo electric multi criteria photo thermal	
7	8 to 30 VCD operating range enable operation in both fire and security system	
8	Multi functional alarm	
9	Make	
	<b>Automatic Telephone Dialer &amp; Built in voice &amp; SMS, GSM Dialer</b>	
1	GSM speech and SMS Dialer	
2	Microcontroller base	
3	2 Speech/ voice message	
4	Separate intuition message	
5	Minimum 10 Programmable Phone Nos.	
6	20Sec recording time for each message	
8	Alarm SMS with alarm type	
9	Retention of programmed data	
	<b>Magnetic Contact Sensor</b>	
1	Operating Gap: 15 MM min	
2	Contact Rating: 10W, 12/24 VDC, 0.5 A	
3	Contact O/P: Normally closed	
4	4 Wire temper Loop	
	<b>PIR Sensor</b>	
1	Dual Element Piezoelectric Sensor	
2	Digital Signal processor	
3	Pet immunity up to 25 Kgs.	
4	Detection range 15 M	
5	Detection angle 110 degree	
6	Sealed optics	
7	Excellent RFI and EMI immunity	
8	Selected Pulse count	
9	Walk Test	
	<b>Panic Switch</b>	
1	Automatic reset	
2	Micro switch technology	
3	In-Built temper switch	
4	Contact O/P: Normally Closed	
5	Tamper Switch: Installed	
	<b>Hooter</b>	

1	High Power 130 ab	
2	4 Wired (With Temper proof)	
3	Low current consumption	
4	Available in 12 VDC and 24 VDC	
5	Available in multiple tones	
	Weather proof housing	

**FORMAT FOR FINANCIAL BID**

Sr No	Product Name & Accessories	Rate per Unit
1	Main Control Panel with auto Dialer	
2	Smoke Detector	
3	Heat Detector	
4	PIR	
5	MCP	
6	Panic Switch	
7	Sounder	
8	Battery	
9	Magnetic Switch	
10	Wiring In PVC/ Mtr.	
11	Response Indicator	
12	Installation Charges	
13	4 Core wire for auto-dialer and temper proofing the system with PVC Pipe/ Mtr.	
	<b>TOTAL</b>	
	<b>Buy Back Of Old System</b>	
	<b>AMC OF OLD SYSTEM (04 Mandatory Visit)</b>	

**Signature of Tenderer with Seal**