**IDEATION**

**INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM**

**Abstract:**

The primary purpose of fire alarm system is to provide an early warning of fire so that people can be evacuated & immediate action can be taken to stop or eliminate of the fire effect as soon as possible. Alarm can be triggered by using detectors or by manual call point (Remotely). To alert/evacuate the occupants siren are used.

        Tthe Intelligent Building of the rapid development of technology applications, commercial fire alarm market demand growth, the key is to use the bus system intelligent distributed computer system fire alarm system, although installation in the system much easier than in the past , but still cannot meet the modern needs, the installation costs of equipment costs about 33% ~ 70.

        The suggested technique in Fire alarm system used the addressable detectors units besides using the wireless connection between the detector in zones as a slave units and the main control unit as the master unit.

         The system shall include a control panel, alarm initiating devices, notification appliances, and the accessory equipment necessary for a complete functioning fire alarm system. In the wireless fire alarm, individual units are powered by primary & secondary batteries for the communication.

*Block Diagram:*

*Conventional Systems:*

     Conventional systems are hardware-based and use analog technology. These systems are made up of zones (Area/ Wide Area Zoning) which are formed by using multiple devices, both initiating and notification devices connected to the main control panel.

     Conventional systems are analog in nature i.e. they use electrical currents to communicate with the control panel. Initiating and notification devices are designed to dramatically increase the current in the circuit (the amount of electricity flowing through the wires) any time the environmental conditions (heat or smoke) in the area of the sensor exceed a predetermined threshold.

     This change in the current is communicated to the control panel to trigger the alarm. Since the conventional system relies on individual circuits to communicate with the control panel, the information the panel can receive is limited to the number of devices it can support. 

*Integration of Fire Alarm System with Building Automation System:*

  Fire safety is extremely important in all buildings making it most critical for the facility managers in order to focus on their fire protection strategies, maintenance of existing technologies, and identify where system upgrades are needed.

       A reliable fire alarm system should quickly detect a fire and provide clear messages within the facility with least disruption to the operations of buildings.

*Say & Do:*

*Easily fire flammable material to fire prevention using in water seperator.*

*The electronic material flammable then using CO2  seperator spray.*

*The using for industrial specific intelligent fire management system.*

 