Hazardous area monitoring for industrial plant powered by iot

LITERATURE SERVEY:

In today's world, the use of wireless technology is becoming beneficial for the leisure and safety of people. Many wireless technologies like IOT, AR, AI, etc are in good demand for adaption of a new lifestyle. Keeping these inventions in the mark, we desired to create a sensor network for prevention and detection of hazards and using the same wireless sensors and then elimination of the cause which led to the hazard. The sensorsencapsulated in the prototype are for fire, gas, temperature, humidity. Now the most crucial.

The parameter for hazard is fire. Temperature, gas, and humidity are the parameters that can be monitored at a prior notice for the preventing the occurrence of a huge fire. If these parameters are under control, it might prevent fire and vice versa. For the elimination and extinguishing the fire, we have used water as the extinguishing element. The prototype also contains a voice module. This is a device which records audio notes and then plays them for an audio alert of the parameter detected. For example, if there is the presence of any harmful gas like carbon mono-oxide in the surrounding,

the gas is detected by the sensor and the voice module plays the audio output "gas detected". It is necessary to record the appropriate voice audio note for each parameter respectively. Thus, this prototype can be very beneficial for workers in industries, power plants, etc for the prevention of a hazard that might destroy machinery as well as can risk the life of the workers.

Iot is a platform which has varied applications in day _to_ day life ranging from domestic to industrial. The system we are going to implement aims to provide a low cost. Low maintenance and robust architecture for analysis hazardous situation in heavy industries . Various papers published in the field of IOT have touched different aspects of this Project

REMOTE TEMPERATURE MONITORING USING LM35 INTIMATE

Android user via C2DM service present a WSN prototype for remote room temperature monitoring ,which can be used for fire safety operations, via ana Android platform. The proposed system provides an Android user

interface for registered user to access the current temperature and a flash / been message in case of fire .this paper influenced our work in selecting the platform for alternating tha usse and connecting it with central controlled

https://www.1JcBmc.com/doc/papers/june2013/v216201313.pdf

ONLINE ANALYSIS AND FAULT FINDING SYSTEM FOR DISTRIBUTION TRANSFORMERS USING IOT

Is about design and implementation of embedded system to monitor and record key parameters of a distribution transformer like load currents ,oil level, oil quality and ambient temperature . This paper provided insights about applications of IOT based systems in industrial environmentsm, and how multiple sensor are unified together.

http://ijesc.org/upload/6194e52702ac6b1c3e6fe37b23226

REAL TIME MONITORING OF CO2 EMISSIONS IN VECHICLES COGNITIVE IOT

Aims to reduce to the green house effect bye real time monitoring and controlling of CO2 emissions caused due to vechicles and industries using cognitive IOT. This paper gives insights about the domain of cognitive IOT,which can be implemented as anExtension of our project https//www.ijsr.net/archive/v5i3NOV161965.pdf

0REVIEW ON TEMPERATURE AND HUMIDITY SENSING USING IOT

Highlights some of the advantages of working with a Raspberry Pi,which helped us to implement a network , running scripts and graphical visualization of data.

https://www.ijarc88e.com/docs/papers