A SURVEY PAPER ON HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED

LITERATURE SURVEY:

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 samewireless sensors and then elimination of the cause which led to the hazard. The sensors encapsulated in the prototype are for fire, gas, temperature, humidity. Now the most crucial [1].

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 [2].

At first, mechanization in industries was done using steam and water power. As the progression occurred, power was presented and was utilized in enterprises for large scale manufacturing. At the point when PCs were developed, it was intended to play out different capacities. As time went on, PCs have become less pricey, and afterward, almost all ventures commenced making use of it for monitoring when you consider that it diminished an important awesome mission at hand experienced by human beings and still it is taken into consideration as the high-quality preference to govern and screen an application [3].

In any case, numerous industries regularly have only a fundamental alert framework regardless of the sort which is turned on by squeezing a solitary catch. IoT is once in a while utilized, and regardless of whether they do have utilized IoT, just a few sensors are utilized, which is the reason the framework isn't bombed verification and accordinglyincapable. Laborers don't think about the circumstance since they are advised to empty the premises on the off chance that the alert goes off. The vast majority of the modern mishaps have had terrible outcomes as forever, property and condition is a burdensome errand [4].

Wellbeing in such a domain and security, if there should arise an occurrence of any disaster, can be generally significant for compassionate, legitimate, and budgetary reasons. Ongoing checking is for the most part required in such cases as it just takes matters of seconds for the circumstance

to go from awful to more regrettable if no moves are made. Mechanization is given essential concentration in the framework for what it's worth in the essential necessity in the businesses in the twenty-first century. Distinctive control advances are utilized for checking and control of the frameworks, while the correspondence between a framework and a client is commonly acknowledged online through remote correspondence systems [5].

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[3]IOT Based Industrial Automation, Department ofElectronics and Communication, Jain College of EngineeringBelagavi, India.

[4]Internet of Things for Industrial Monitoring and ControlApplications, Department of Electronics andTelecommunication Engineering, Prof. Ram Meghe Institute ofTechnology & Research Badnera, Amravati 444701, SantGadge Baba Amravati University.

[5]Industrial Automation Monitor and Control using IoT,Dept of EIE, Dr.AIT college, Bangalore, Karnataka.