IoT Based Coal Mine Safety System Using Wireless Sensor Network

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Abstract: - *Safety is the most vital part of any type of industry. In the mining industry safety and security is a fundamental aspect of all. To avoid any types of accidents mining industry follows some basic precautions. Still accidents take place in underground mines due to rise in temperature, increased water level, and methane gas leakage. Here we provide safety to worker. When worker in danger he can press panic switch inform security. To enhance safety in underground mines, a reliable communication system must be established between workers in underground mines and fixed ground my system. The communication network must not be interrupted at any moment and at any condition. A cost-effective ZigBee based wireless mine supervising system with early-warning intelligence is proposed in this project. Worker status can be monitor over IoT.*

Keywords: - Temperature Sensor, Arduino UNO, Gas Sensor, Flow Sensor. LCD, ZigBee, etc.

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