

Manhole Quality Management and Sensing Using IOT

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Abstract: 'A novel design of a model method of quality management of manholes in metropolitan cities that can improve the efficiency of civic bodies in an urban and technology driven country'. In these recent times, aging and outdated public sewers and underground networks and facilities have caused increased needs for systems that support the robust maintenance and management of social infrastructure. There are dire needs for measure regarding manholes involved in water, sewage, gas and electric facilities, including the supplementary countermeasures to prevent the covers from being subjected to damaged or displaced due to ill manner of maintenance, aging or torrential rainfall that exceeds its drainage capacity. There is also concern regarding covers being stolen or manholes being used in acts of terrorism, and efforts to solve the problems caused by manholes are required so that people can live in a safe environment and are not subjected to any freak accidents or unfortunate mishaps. This social concern can be monitored and solved with the integration of Internet of Things (IoT) will enable us to effectively solve the problems regarding underground network of sewers. Internet of Things (IoT) consists of real-life objects, communication devices attached to sensor networks in order to provide communication and automated actions between real world and information and data driven world.

Keywords: Low Maintenance, Wireless Sensor Network, Smart City, etc.

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