



Wireless Sensor Network Using Flood Monitoring

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Abstract— Wireless Sensor Network is architecture with a variety of potential application. Wireless sensor network have emerged as an important application of the ad-hoc networks paradigm, such as for monitoring physical environment. These sensor networks have limitations of system resources like battery power, communication range and processing capability. There is a crucial link between safety and survival of any transportation organization. History has proved time and again that, over Indian Railways, bridges and track on bridges are one of the weak links in ensuring the required level of safety during floods. Accelerating economic growth demands Indian Railways to increase the traffic, passenger as well as freight, to a new heights and thus necessitating for a greater and automatic real time safety measures involving least human element. Thus it is important for system to enhance safety of track over bridges against any unforeseen flash floods and breaches.

Keywords— Flood level sensor; LPC 2148 Microcontroller; RF Transceiver; wireless sensor network; ZigBee

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