

ABSTRACT

The decrease in biodiversity and the growing risks to wildlife populations have required the creation of inventive methods for conservation. But nowadays, more and more animals are getting endangered and are on the verge of extinction. So, to save these animals from extinction, humans reserved forest areas (Sanctuaries and national parks) for their safety. However, some animals died due to bad health which couldn't get any attention also. To avoid such casualties, animal location tracking system with a health monitoring system is used. In the proposed method, Automatic tracking system has been implemented by LoRa (Long Range) wireless module and GPS technology. This device is attached to the body of an animal and would be continuously monitoring the position of the animal with respect to the GPS defined boundaries setup inside a wildlife sanctuary or national park. The mic sensor and vibration sensor is also attached for ensuring animals being stuck at any places. The health condition of wildlife is also monitor by using temperature sensor.