

Solar Based Machine for Management of Plastic Wastes

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Abstract: *At present nearly 56 lakhs tones of plastic waste is produced in India per year so the main aim of this project was to reduce plastic waste and to create a machine which is small, lightweight and easy to operate in rural and urban areas. Day by day our environment is polluted by large amount of plastic wastes. However, there are several plastic wastes recycled & reused, they are not done effectively. In order to prevent the environment pollution caused by plastic waste. The waste plastic is shredded & coated over aggregate & mixed with hot bitumen and resulted mix is used for pothole repair. This will not only strengthen the pothole and also increases its durability. Pothole is one of the most visible and annoying forms of distress associated with bituminous pavement deterioration from the point of view of a road user. Potholes have always been a problem for highway maintenance agencies because their repair is costly and time-consuming. This project will help to fill plastic waste in liquid form in pothole and patch the pothole for lifetime.*

Keywords: Pothole, Pothole Repair Machine, Plastic Waste Management, Environmental Pollution, Embedded System

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