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(54) Title of the invention : IOT BASED MUNICIPAL GARBAGE MONITORING SYSTEM FOR THE SMART CITIES

<p>(51) International classification :H04L 29/08</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. N.Vijaya Anand Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, P. V. P. Siddhartha Institute of Technology, Kanuru, Vijayawada 520007. 9849862037 nidumoluvijay@gmail.com. Andhra Pradesh India</p> <p>2)Vidyasagar Vidapu 3)Batti Tulasidasu 4)Natha. Deepthi 5)Nakirekanti suvarna 6)V.M.Jothiprakash 7)Mohammed Firdos Alam Sheikh 8)Dr. R.Gowri Shankar Rao 9)Dr.V.Jayaraj 10)Dr.P.Devabalan</p> <p>(72)Name of Inventor : 1)Dr. N.Vijaya Anand 2)Vidyasagar Vidapu 3)Batti Tulasidasu 4)Natha. Deepthi 5)Nakirekanti suvarna 6)V.M.Jothiprakash 7)Mohammed Firdos Alam Sheikh 8)Dr. R.Gowri Shankar Rao 9)Dr.V.Jayaraj 10)Dr.P.Devabalan</p>
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(57) Abstract :

ABSTRACT The invention IOT BASED MUNICIPAL GARBAGE MONITORING SYSTEM FOR SMART CITIES • is a device comprising of modern sensors and IoT platform. Urban India (about 377 million people) generates 62 million tonnes of municipal solid waste (MSW) each year. With changing consumption patterns and rapid economic growth it is estimated that urban municipal solid waste generation will increase to 165 million tonnes in 2030. Three categories of wastes normally collected in India from every house including Organic or Biodegradable waste, Dry waste (such as plastic, paper, metal and wood), and Domestic Hazardous waste (diapers, napkins, mosquito repellents, cleaning agents). Generally sweepers are employed to collect the primary wastes in each city; which substantiate that the collection done by manually and stored locally in bins. Once bins are filled and it is taken away by waste collection truck. Level of waste in the bins is monitored manually and clearing the bins is tedious process due to manual operations. Sometimes, bins located in the public places are overloaded; this generates unhygienic conditions and spreading unpleasant smell to the people. This innovation brings IoT based monitoring system and will very grateful to maintain the cities spick and span.

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