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(54) Title of the invention : A SYSTEM AND METHOD FOR GARBAGE BIN MONITROING AND MAINTENANCE

<p>(51) International classification :B65F0001140000, B65F0001160000, G07C0005000000, A61B0005020500, G07C0005080000</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 :</p> <p>1)CMR College of Engineering & Technology Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>----</p> <p>2)SATYAMANISHANKAR PABBINEEDI 3)KALSANI VARUN SANDESH 4)MYADAM POOJITHA 5)PALLERLA SHREEYA 6)TEEGALWAR NIKHIL 7)Archana Bathula 8)B. Balakrishna 9)Md. Asma 10)B.Suresh Ram 11)Kayyam Sathish</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)SATYAMANISHANKAR PABBINEEDI Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>2)KALSANI VARUN SANDESH Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>3)MYADAM POOJITHA Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>4)PALLERLA SHREEYA Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>5)TEEGALWAR NIKHIL Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>6)Archana Bathula Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>7)B. Balakrishna Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>8)Md. Asma Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>9)B.Suresh Ram Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p> <p>10)Kayyam Sathish Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----</p>
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(57) Abstract :

Embodiments of this disclosure describe a system for efficient management and maintenance of garbage bin. The system comprises a microcontroller as the central processing unit, along with a power supply, ultrasonic sensors, GPS modules, an LCD, an LED, a buzzer, a GSM module, a WiFi module, and a cloud. These components work together to create an integrated and efficient system for garbage management. The ultrasonic sensors enable accurate detection of the garbage level within a bin, while the GPS modules provide precise tracking and location information of the garbage bin. Notifications and messages can be sent to municipal authorities through the GSM module, keeping them informed about the garbage bin's status and location. The system also utilizes an LCD for displaying relevant information, an LED for visual indications, and a buzzer for auditory alerts. This invention offers a potential solution for optimized waste collection processes and contributes to environmental sustainability. FIG. 1

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