

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 16/2024
ISSUE NO. 16/2024

शुक्रवार
FRIDAY

दिनांक: 19/04/2024
DATE: 19/04/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441023745 A

(19) INDIA

(22) Date of filing of Application :26/03/2024

(43) Publication Date : 19/04/2024

(54) Title of the invention : IOT-ENABLED MANHOLE MONITORING SYSTEM

(51) International classification :G01N0033000000, A47L0015420000, A61H0001020000, A61B0005030000, A61B0005021500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CMR College of Engineering & Technology,
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. Hyderabad -----
2)Rohit kumar Ojha
3)Panduga Mani Prasad Goud
4)Tanuja Maurya
5)Jinka Neha
6)B.Suresh Ram
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Rohit kumar Ojha
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----
2)Panduga Mani Prasad Goud
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----
3)Tanuja Maurya
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----
4)Jinka Neha
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----
5)B.Suresh Ram
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India. -----

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards an IoT-enabled manhole monitoring system comprising a manhole lid comprising a top compartment, a middle compartment and a bottom compartment, whereby the top compartment is configured to accommodate a servo motor, a gas detecting sensor, and an LCD display, and the bottom compartment is configured to accommodate a water level sensor, a temperature sensor and a tilt sensor, wherein the water level sensor, the temperature sensor, gas sensor and the tilt sensors are configured to monitor various functional parameters within the manhole and transmit the monitored functional parameters data to a microcontroller; and the microcontroller is configured to transmit the monitored functional parameters data received from one or more sensors to a web server thereby enabling monitoring of the manhole system in real-time. FIG. 1A.

No. of Pages : 19 No. of Claims : 9