

(54) Title of the invention : AN IOT BASED SEWAGE TREATMENT SYSTEM DETECTION TECHNIQUE AND METHOD THEREOF

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(71)Name of Applicant :

1)Dr. Alok Singh Chauhan

Address of Applicant :Associate Professor, Department of Computer Application, School of Computing Science & Engineering, Galgotias University, Greater Noida, Uttar Pradesh, India -----

2)Ms. Meenu Sharma**3)Mr. Abhijit Kumar****4)Ms. Anamika Srivastava****5)Ms. Rashmi Bhardwaj****6)Mr. Umakant Singh****7)Dr. Nikita Joshi Mishra****8)Mr. Anand Vardhan Shukla****9)Ms. Savita Yadav****10)Ms. Archana Gupta**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Alok Singh Chauhan

Address of Applicant :Associate Professor, Department of Computer Application, School of Computing Science & Engineering, Galgotias University, Greater Noida, Uttar Pradesh, India - -----

2)Ms. Meenu Sharma

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, IMS Engineering College, Ghaziabad, Uttar Pradesh, India -----

3)Mr. Abhijit Kumar

Address of Applicant :Assistant Professor, Department of Computer Science, Noida Institute of Engineering and Technology, Greater Noida, Uttar Pradesh, India -----

4)Ms. Anamika Srivastava

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Noida Institute of Engineering and Technology, Greater Noida, Uttar Pradesh, India -----

5)Ms. Rashmi Bhardwaj

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vishveshwarya Group of Institutions, Dadri, Uttar Pradesh, India -----

6)Mr. Umakant Singh

Address of Applicant :Assistant Professor, Department of Computer Application, Maharana Pratap Group of Institutions, Kanpur, Uttar Pradesh, India -----

7)Dr. Nikita Joshi Mishra

Address of Applicant :Assistant Professor, School of Computer Science, IMS Ghaziabad (University Courses Campus), Uttar Pradesh, India -----

8)Mr. Anand Vardhan Shukla

Address of Applicant :Research Scholar (Ph.D.), Department of Computer Applications, Integral University, Lucknow, Uttar Pradesh, India -----

9)Ms. Savita Yadav

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering (IOT), Noida Institute of Engineering and Technology, Greater Noida, Uttar Pradesh, India ----

10)Ms. Archana Gupta

Address of Applicant :Assistant Professor, School of Computer Science, IMS Ghaziabad (University Courses Campus), Uttar Pradesh, India -----

(57) Abstract :

[034] The present invention describes an Internet of Things (IoT) approach for monitoring the status of Sewage Treatment Plants (STPs) using critical sensors and Arduino microcontroller boards connected through Wi-Fi networking technology. The system's primary objective is to collect real-time data from critical sensors, including temperature, turbidity, and pH sensors, and provide visualizations through a web-based application. The collected data enables informed decision-making and remote operation of STPs. The cost-effectiveness of the sensor set, and the utilization of Arduino-based Wi-Fi modules make this approach a promising solution, even in challenging underground environments. This proposed IoT approach offers an effective means to monitor and manage STPs, leading to enhanced operational efficiency and improved environmental safety. Accompanied Drawing [FIGS. 1-2]

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