(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/12/2024

(21) Application No.202441097365 A

(43) Publication Date : 13/12/2024

(54) Title of the invention : Water Level Monitoring and Dam Management Service Using IoT

(51) International classification :G08B0021020000, E02B0007200000, G06Q0050400000, G08B0021240000, C05F0011000000

(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)Malla Reddy Engineering College
Address of Applicant :Dhulapally post via Kompally Maisammaguda Secunderabad -500100 Secunderabad ---------- ----------
2)Dr Arun Kumar Kandru
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr Arun Kumar Kandru
Address of Applicant :Associate Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: kandruarun002@gmail.com & 9010553666 Secunderabad ---------- ----------
2)Ms Asmita Pankaj Ambekar
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State: Telangana Email ID & Contact Number: ekhandeasmita@gmail.com & 9849720639 Secunderabad ---------- ----------
3)Malege Sandeep
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State: Telangana Email ID & Contact Number: sadeep.malege@gmail.com & 9963222902 Secunderabad ---------- ----------
4)N Paparao
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State: Telangana Email ID & Contact Number: Paparaonalla259@gmail.com &9866710255 Secunderabad ---------- ----------
5)Ms Beri Madhuri
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State: Telangana Email ID & Contact Number: madhuri16.b@gmail.com & 9949390795 Secunderabad ---------- ----------
6)Sattivada Dinesh kumar
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. State: Telangana Email ID & Contact Number: dineshkumarsattivada@gmail.com &7569870710 Secunderabad ---------- ----------
7)DR.P. Venkateswarlu
Address of Applicant :Associate Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: venkat123.pedakolmi@gmail.com & 9849233439 Secunderabad ---------- ----------
8)DR.Pattlola.Srinivas
Address of Applicant :Associate Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: drpattlolasrinivas@gmail.com &9849720639 Secunderabad ---------- ----------
9)D.Jyothirmai
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangan Email ID & Contact Number:jyothirmairapolu01 @gmail.com & 9491443386 Secunderabad ---------- ----------
10)Mr. Pilli Uday
Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Email ID & Contact Number: udayfranklin93@gmail.com&9908979915 Secunderabad ---------- ----------
11)Mr.P. Srikanth
Address of Applicant :AssistantProfessor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: srikanth.10073@gmail.com 7396461380 Secunderabad ---------- ----------

(57) Abstract :
Dams are a key source of water for irrigation, electrical generation, and other purposes in India. Dams have played an important role since colonialism began. The lack of a comprehensive dam management system has resulted in severe losses, including the current floods. An innovative and viable automatic control system for dam management can be designed in response to current rural and socioeconomic issues. This research also suggests an innovative concept for gathering and exchanging real-time information on water levels with those living near its bank. A highly exact water level monitoring system with timely reports to the area is also designed. When the water level exceeds the threshold, alert messages are delivered to the people, and the shutters open automatically, retaining the water at its regular level. prompt warnings to all residents in the area, as well as the prompt opening of shutters, can lessen the danger of loss of life and prevent calamities. As a result, automating the dam system with Arduino, ultrasonic sensors, GSM modules, and motors opens up new avenues for both the government and the local community to develop mitigation plans.

No. of Pages : 7 No. of Claims : 6