

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431060628 A

(19) INDIA

(22) Date of filing of Application :10/08/2024

(43) Publication Date : 16/08/2024

(54) Title of the invention : Rainwater Detector System: Enhancing Water Management and Conservation

(51) International classification :G06Q0010060000, G05B0015020000, G06Q0050060000, E03B0003030000, E03B0003020000

(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)SWAMI VIVEKANANDA UNIVERSITY
 Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
Name of Applicant : NA
Address of Applicant : NA
 (72)Name of Inventor :
1)MR. ARIJIT MUKHERJEE
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

2)MR. SAYAN PAUL
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

3)MR. SOUMYA GHOSH
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

4)DR. SAMRAT BISWAS
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

5)MR. ABHISHEK DHAR
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

6)MR. SAURABH ADHIKARI
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

7)Prof. (Dr.) Subhranil Som, Principal,
 Address of Applicant :Bhairab Ganguly College 2, Feeder Rd, Beehive Garden, Belghoria, Kolkata, West Bengal-700056 India Belghoria -----

(57) Abstract :
 The Rainwater Detector System represents an innovative approach to water management and conservation, offering a proactive solution for monitoring and optimizing rainwater harvesting systems. This intelligent system utilizes sensors and data analytics to detect rainfall events in real-time, enabling efficient collection and storage of rainwater for various applications such as irrigation, landscaping, and household use. By automating the process of rainwater detection and harvesting, this system helps maximize water utilization while minimizing runoff and wastage. With its user-friendly interface and customizable features, the Rainwater Detector System empowers users to make informed decisions about water usage, promoting sustainability and resilience in water resource management.

No. of Pages : 12 No. of Claims : 7