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<p>(51) International classification :C02F 3/00 (86) International Application No :PCT// Filing Date :01/01/1900 (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</p>	<p>(71)Name of Applicant : 1)SWAMI VIVEKANANDA UNIVERSITY Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. TANMOY SARKAR Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore ----- 2)MR.VIBHOR RAJ Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore ----- 3)Mr. Abhishek Dhar Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore ----- 4)Mr. Saurabh Adhikari Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore ----- 5)Dr. Subhranil Som Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore -----</p>
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(57) Abstract :

This abstract presents an innovative automated water control system for biofloc aquaculture, accompanied by a user-friendly mobile application. The system includes essential sensors such as TDS, water temperature, and salinity meters, along with an ammonia test meter and an underwater camera. All equipment is compactly fitted in one box, allowing for easy installation and operation. The system operates automatically, minimizing manual intervention and ensuring real-time monitoring and control. The mobile application enables remote accessibility, empowering fish farmers to make informed decisions promptly. This integrated solution optimizes water quality management, promotes sustainability, enhances disease prevention, and streamlines aquaculture operations, leading to increased productivity and profitability in the biofloc system.

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