



PRIME Reference Number: PRIME2022/TB13

Intelligent Waterbody Management System

Domain: Agri-technology & Agri-inputs

Sediment aeration device diffuses air at the sediment level where the majority of waste and aquatic species shelter and helps in maintaining dissolved oxygen at sediment oxygen boundary layer. AI based monitoring device provides data at various places across the waterbody. It can predict water quality parameters such as dissolved oxygen, un-ionized ammonia, phosphate, nitrite, nitrate, sulphide, pH and oxidation reduction potential. In addition guides monitoring devices to activate aeration and phytoremediation with the floating agriculture platform.

Value Proposition: Fully automated one stop solution with

- 60% reduced energy consumption
- 80% reduced labour cost
- 30% reduced feed cost
- 50% increased profit to the farmers
- reduces pathogenic growth

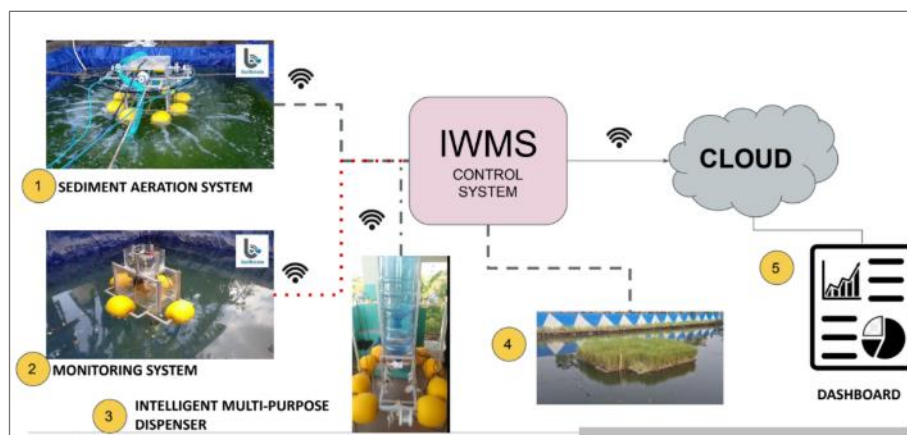
Applications:

- Aquafarming
- Rejuvenation of urban and rural waterbodies

Technology Status: Deployment ready

IP Status: 20 IPs filed including 5 process patents and 15 industrial designs

Market Potential: The global water treatment aerators market is expected to grow at a CAGR of 5.95% during the period 2021-2028.



IKP-PRIME is seeking: commercialization and contract manufacturing partners

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