

# ***Airlift Based Biofloc Aquaculture System (ABAS-24)***

**A Technology developed and Commercialized by Division of  
Aquaculture, ICAR-CIFE, Mumbai**

**Marketed by Plastic Crafts Corporation, Vile Parle, Mumbai**

## **TECHNOLOGY INVENTORS**

- 1) ***Mr. Jakir Hussain***, Research Scholar, Aquaculture Division, ICAR-CIFE, Mumbai.- **Lead Inventor**
- 2) ***Dr. Debajit Sarma***, Principal Scientist & HoD, Division of Aquaculture, ICAR-CIFE, Mumbai-**Lead Inventor**
- 3) ***Dr. Chandrakanth Mallikarjun Hithinahalli***, Principal Scientist-**Lead Inventor**
- 4) ***Dr. Ajit Kumar Verma***, Principal Scientist, Aquaculture Division, ICAR-CIFE, Mumbai- Co-Inventor
- 5) ***Dr. Babitha Rani Asanaru Majeedkutty***, Senior Scientist, Aquaculture Division, ICAR – CIFE, Mumbai- Co-Inventor
- 6) ***Dr. Kapil Sukhadeo Sukhdhane***, Scientist, Aquaculture Division, ICAR – CIFE, Mumbai-Co-Inventor

## **Brief about technology**

ABAS-24 effectively prevents sludge accumulation and ensures optimal dissolved oxygen levels within the culture system. (Note: Sludge build up is a prevalent issue in traditional biofloc systems, which negatively impact water quality and fish health, often result in the failure of the culture operation.) Additionally, ABAS-24 effectively maintains key water quality parameters such as unionized ammonia, nitrite, biological oxygen demand (BOD), dissolved CO<sub>2</sub>, total suspended solids (TSS), pH, and temperature within the ideal ranges required for a successful biofloc aquaculture operation. It further serves as a protein skimmer through foam fractionation and assists in the removal of dissolved CO<sub>2</sub> from the culture environment. More importantly, fish growth and overall health are significantly enhanced in the ABAS-24 system compared to traditional biofloc systems.