

Commercialization of the Technology

Airlift Based Biofloc Aquaculture System (ABAS-2024)

By ICAR-CIFE, Mumbai

ICAR-CIFE commercialized the technology Airlift Based Biofloc Aquaculture System (ABAS-24) to Ms. Plasticarft Corporation, Mumbai. The technology was developed and validated by the Lead Inventors- Mr. Jakir Hussain, Dr. Debajit Sarma, Dr. Chandrakant M.H and Co-Inventors- Dr. A.K.Verma, Dr. Babitha Rani and Dr. Kapil Sukhdhane of Division of Aquaculture, ICAR-CIFE, Mumbai. The technology commercialized has unique features such as low sludge accumulation and maintenance of optimal dissolved oxygen levels within the culture system , maintenance of key water quality parameters such as unionized ammonia, nitrite, biological oxygen demand (BOD), dissolved CO₂, total suspended solids (TSS), pH, and temperature within the 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 CO₂ from the culture environment. More importantly, fish growth and overall health are significantly enhanced in the ABAS-24 system compared to traditional biofloc systems.

The Memorandum of Agreement (MoA) was signed by Dr.C.N. Ravishankar, Director and Vice-Chancellor, ICAR-CIFE and Mr.Virag Jagdish Shivpuri , Managing Director, Plasticrafts Corporation and it became effective from 18th December, 2024. Dr. Debajit Sarma, Head, Division of Aquaculture, Dr. S. P. Shukla , Incharge , ITMU-CIFE and the members of the team of inventors were present during the signing of MoA..

