

Microalgal Mass Cultivation Centre (MMCC)



Microalgal Mass Cultivation Centre (MMCC) is a raceway pond cultivation system developed by Dr. N. Thajuddin, Professor and Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli, funded by Indo (DBT) - UK Collaborative project. The centre comprises of two raceway ponds, with water holding capacity of 35000L and 5000L. Further paddlewheels (30rpm) are installed providing the uniform water flow in the pond. This is the first raceway pond installed with Pulsed Magnetic Field (PMF) system in Asia for increasing the lipid productivity of microalgae. The pond is constructed shallow to reap the maximum benefits of the sunlight for microalgal growth. After harvesting, the biomass will be utilized for different commercial applications such as Biofuels, Pigments, Proteins, Polysaccharides, Lipids and Animal feeds; hence this system is cost-effective and eco-friendly.