



AIT – MITSUBISHI V



1. Project name	Treatment of Wastewater using a Pilot-Scale Membrane Aerated Biofilm Reactor (MABR)
2. AIT Lead Faculty	Prof. C. Visvanathan
3. Objective	To develop a pilot-scale Membrane Aerated Biofilm Reactor (MABR) capable of removing organic matter and total nitrogen in domestic wastewater at the Asian Institute of Technology, which can be scaled up and applied worldwide.
4. Short Descriptions	In this study, the performances of two pilot-scale MABR systems with MHF-300EPE membranes of different relaxation rates are compared for treating domestic wastewater with and without PVA gel bio-carriers for the removal of organic matter and total nitrogen.
5. Output/Social Impact	Implementation of low-cost effective treatment of wastewater containing nitrogenous compounds.
4. Partners	-
5. Donors	Mitsubishi Chemical Co., Ltd, Japan
6. Project Duration	1 June 2021 – 30 September 2022
7. Total grant amount	13,800 USD (428,956 THB)
8. Please specify SDGs to which this project belongs	SDG 3, 6, 9, 12, 15, 17