

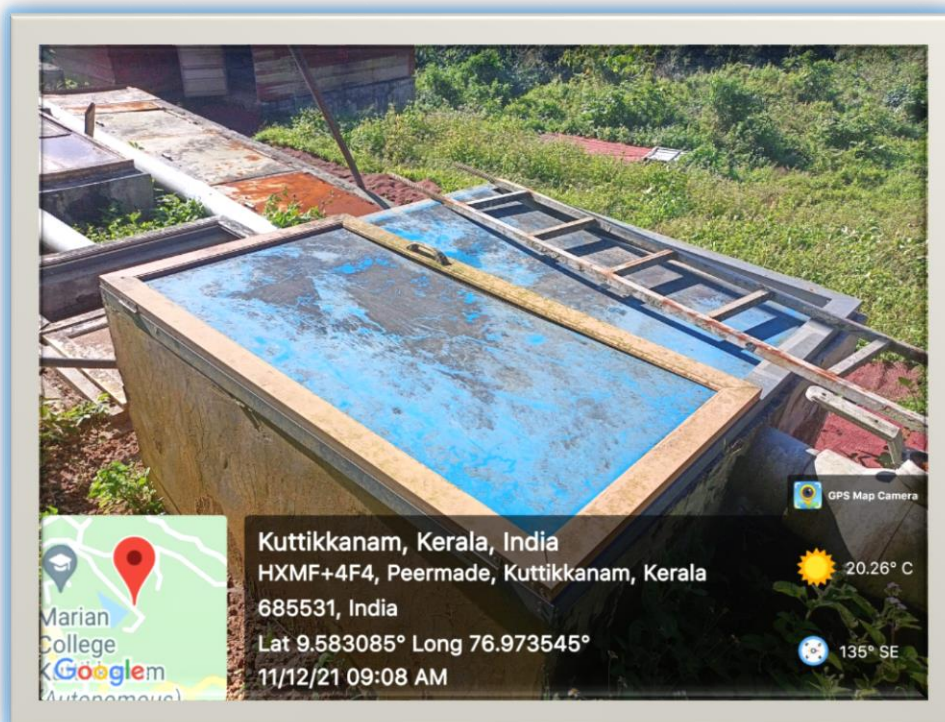


MARIAN COLLEGE KUTTIKKANAM
(AUTONOMOUS)

Liquid Waste Management

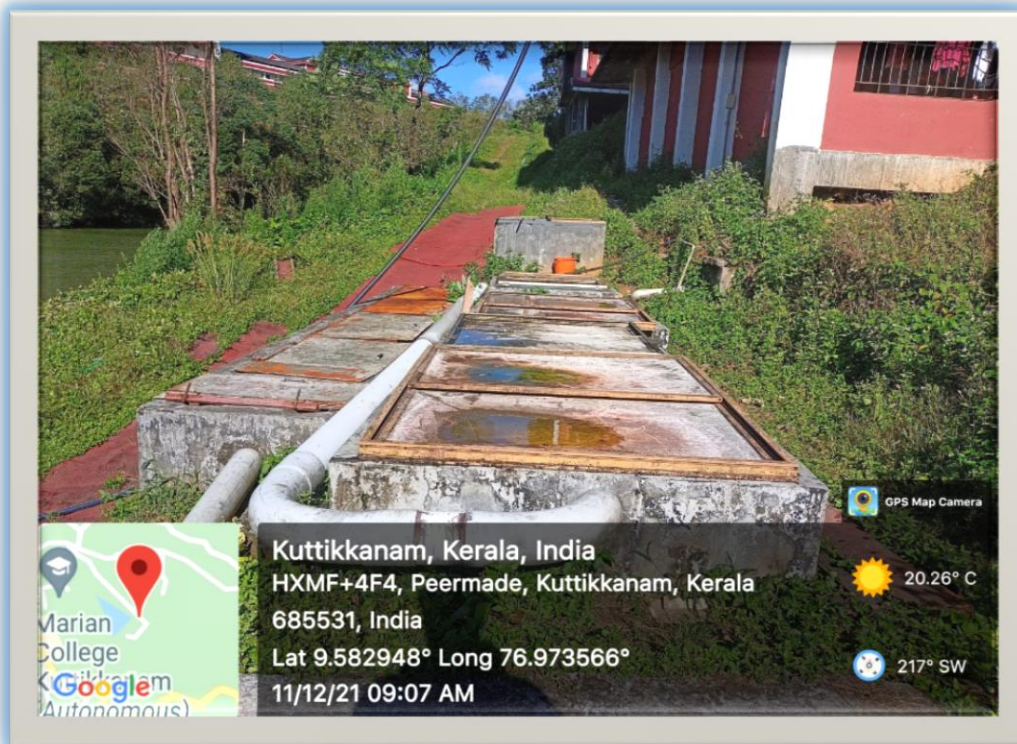
Submitted to
THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)
FOURTH CYCLE OF ASSESSMENT

Liquid waste on campus comprises mainly of the waste water from the canteens, cafeteria, toilets, laboratories etc. For treatment of wastewater, a sewage treatment plant (STP) with a capacity of treating 50000 litres/ day is installed on campus. It works in an eco- friendly and energy efficient manner. The treated water is used for gardening, toilet flushing, construction purposes etc. Waste water from the laboratories are disposed of properly by flowing it safely through percolating pits. Water usage is reduced to about 65% by the recycling of campus wastewater. The economic usage of water keeps its residents, wildlife and plants healthy and safe. Sprinkler irrigation system is utilized to water the lawns, flowering plants and vegetables which also helps to reduce water consumption on campus.



The Bar Screen Chamber of sewage treatment plant for separating plastic and other non-decomposable particles from the incoming waste water





The Grit Chambers to slow down the flow of wastewater for removing the floating solids





Compressor: Used for water treatment aeration, to supply the processing bacteria with oxygen support





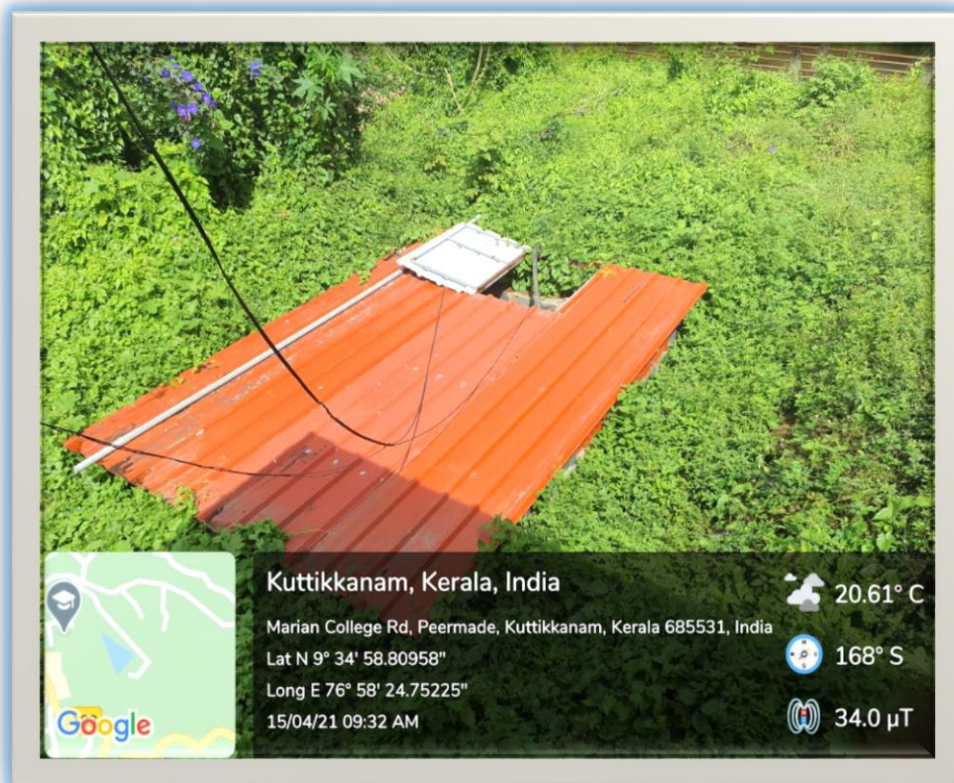
Aeration to each tank





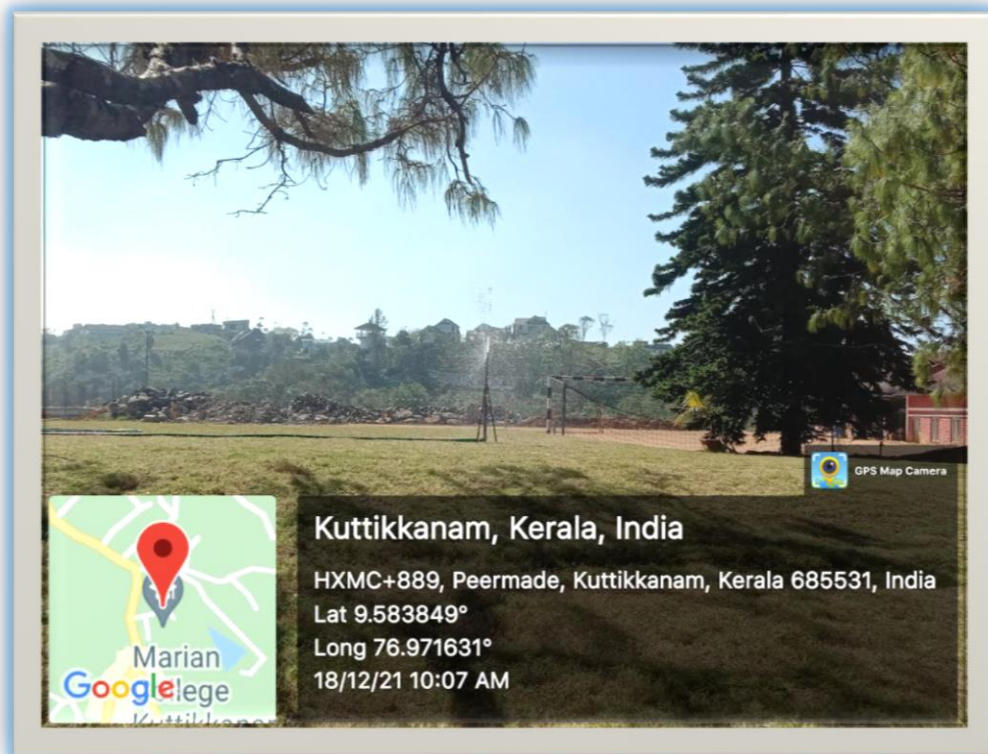
Sand and Carbon Filter: Sand Filter is used for the removal of suspended & visible impurities like sand, silt, heavy metals etc., and Activated Carbon Filter removes colour, odour, organic matter, chlorine and other chemicals.





The water tank that collects the treated wastewater





Sprinkler irrigation system is utilized to water the lawns, flowering plants and vegetables using recycled waste water

