

## Case Study: Lilo-an's ( Cebu Island)

### *“Decentralized waste water treatment plant created difference in this coastal area of Philippines”*

Here is a case study of Lilo-an's which is a coastal area of Philippines. This coastal area owing to pollution was deteriorating. It was reported that the coastal water was infected with coliform cell. The poor hygienic condition was not only the source of irritation for the local residents but it also affected the tourism industry in a considerable way. Due to this the visitors count reduced year after year thereby affecting restaurants, transportation, souvenir shops, and numerous small beach vendors.

High coliform cell counts in water was the result of fecal contamination caused by domestic wastewater effluents. The septic tank in the local market was insufficient to maintain proper hygienic conditions of the coastal water.

Due to lack of sufficient finance Lilo-an, like other Philippine municipalities, cannot afford to construct a centralized wastewater treatment system . Hence the best option that remained with them was decentralized wastewater treatment.

After careful planning the local municipality planned to construct decentralized wastewater treatment facility (WTF) at the Lilo-an public market. This facility was designed to treat approximately 60-70 m<sup>3</sup> of wastewater per day. The construction plan also included some neighboring households of the market. The project also aimed to install new toilets at the public market to improve the hygienic condition of the place. The project costed just \$50,000 . The maintenance cost was managed by charging the fees from the vendors.

The project was the success and the direct beneficiaries from the project was neighboring residents and the local market vendors. Though others like restaurants and souvenir shops along the coast, and beach vendors were also benefited from this project. who would benefit from the revival of tourism when the quality of coastal water improves. This also helped in improving the tourism industry. Moreover, coliform cell counts along the Lilo-an coastline was reduced making it safe once more.