Standardisation and Validation of Waste Water Processing is Required

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Faculty of Engineering UGM hosted a workshop on waste water processing, involving companies, researchers, and observers. It is expected to form an association of waste water processing researchers in order that technology standardisation can be achieved in this field.

In the workshop from 5-6 October at Harper Hotel Yogyakarta, participants presented innovation results that are applied in various industries in the country as well as technology that is used at landfills.

UGM Chemical Engineering lecturer, Wiratni Budhijanto, Ph.D., said the UGM team developed anaerobic fluidized technology design to process waste water in Piyungan, Bantul, Yogyakarta.

According to Wiratni, during this time waste water processing was not well managed, which can pollute the ground water quality around the landfill. But this matter requires an extensive water catchment area. “So, we try to develop an efficient technology so that waste water can be processed before,” he said. This technology can be utilised for fishery. UGM researchers devised a vertical pond that does not take up much space.

“We’re using smart aquaculture technology, a vertical pond at a 2 meter-deep to resolve space problems. We will offer farmers and businessmen to be our research partners,” he said.

Wiratni explained the fishery prospect in Indonesia is potential, being the biggest tilapia exporting country in the world. But there is a problem in terms of meeting demands due to the difficulties in finding the areas for the pond and fresh water supply. This technology is expected to give a solution to the fisheries cultivation sector.

Practitioner in waste water processing, Ivan Affandi, described the importance of forming an association for waste water processing engineers to produce standardisation and validation of new techonologies that enter the country.

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