

Abstract of Presentation

Presentation Title:

The Application of Biological Processes in Several Industrial Wastewater in Indonesia

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In Indonesia, the quality of surface water are degrading rapidly, especially in the big cities, due to the pollutants discharged either from domestic or industrial effluents. The Indonesian government make an effort to reduce the pollution loads with imposing a number of regulations. According to the current regulation, each industries should treat its wastewater and meet the effluent standards.

Biological processes are one of the technology applied in Indonesia to deal with the organic wastewater. In this paper, it will be presented several applications of the technology to the various industries.

The succesful application of the combination of anaerobic and aerobic process to treat the effluent from textile mills, fatty-alcohol, starch-based and energy-drink industries will be discussed. The promising technology for treating small textile mill effluent with white rot fungus, textile mill effluent with membrane bioreactors and the possibility of producing biodegradable plastics from tapioca wastewaters will also be presented.