

EM Technology on Waste water treatment in the UHT factory

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The study on waste water treatment in the UHT factory, which used the activated sludge system. The factory faced the bad smell problem and the high BOD level from the treatment system, EM technology was used both Bokashi and extended EM in continuous application the observation revealed the bad smell was released, pH changed from 9.7 to 7.8, the Suspended Solid decreased from 220 to 38 mg/L, the Dissolved Solid changed from 1425 to 1248 mg/L and the BOD (Biological Oxygen Demands) decreased from 840 to 19.8 mg/L.

EM application:

1. Capacity of activated sludge pond is 4,000 cum. Waste water from factory is 300 cum/day. 500 kilos of Bokashi was dumped and 100 liters of extended EM were put in the activated sludge pond.
2. After 5 days drain extended EM everyday in the activated sludge pond at the rate of 1 liter of extended EM/ 5000 liters of waste water. If there is 300 cum/day, 60 liters of extended EM is used/day.

Results:

1. After 5 days of treatment foul smell released.
2. At the moment 100 liters of EM/month is used. There is no foul smell problem at all.

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