

EM Technology on Waste water in the Para rubber Processing plants

Nam Bunyasa-aad

Songkhata Ratchapat Institute, Songkhata, Thailand

The study on waste water by using EM in water treatment ponds in the southern region, which are 6 factories (1 small and 5 large scale factories).

The application of EM technology:

Spraying extended EM (multiplied EM) to the pond # 3-12 related to the size of the plant. The results of water quality samples were satisfied.

The initial waste water data about the factories are:

The plant size 100-400 cum/day; pH4.5-6.5; BOD 2400-7000 mg/L.

By observation revealed that the bad smell gradually satisfied decrease, and the water quality; pH 5.69 change to be 7.57; BOD from 2400-5600 mg/L to change to be 5.1 mg/L; SS from 144-512 mg/L change to be 33 mg/L and DS from 1300-1990 mg/L change to be 460 mg/L.

Note:

EM application/ 1 liter of waste water: for the first time of using EM

Bokashi	1 kg
Extended EM	2 liters
Super EM5	150 cc

After one week of treatment, start to drain extended EM in the pond: 1 liter of extended EM/ 5000 liters of waste water in the pond.

Results;

- Foul smell disappear within 24 hours.
- Water will be clear within 7 days.
- After one month of treatment, water can be released to the public canal.

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