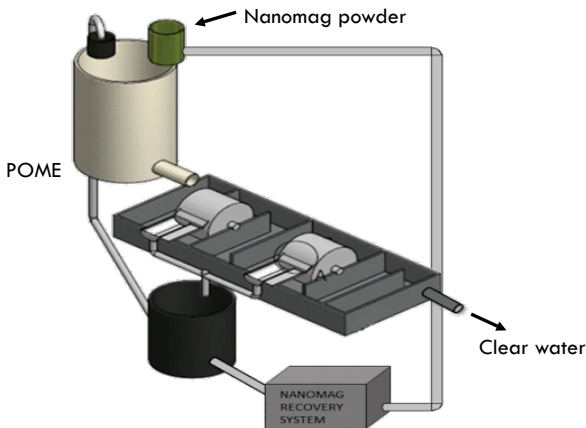


## Wastewater Treatment Process for Heavy Metals and POME Removal



### NanoMag

- Nanomag waste water system consist of NanoMag powder and wastewater system unit to recover its back, so its able to used back
- NanoMag powder is produced using waste product from industry.
- NanoMag powder can absorb all the dirt from wastewater
- Beneficial in Palm Oil Mill, Its can reduce BOD level until 20ppm, according to DOE standard (20-100ppm).
- **Advantage of NanoMag**
  - **Non-magnetic:** It will not stick to steel plant components
  - **Fully oxidized and insoluble:** It will not rust, degrade or dissolve into solution
  - **Reusable:** Its magnetic properties allow for easy recovery
  - **Inexpensive:** low cost ,Rm 0.40

### ACHIEVEMENT

- We have done 6/10 problem interview with waste water consultant and 5/10 with palm oil mill
- We have done testing palm mill effluent by using nanomag powder. Its can be seen that the nanomag can absorb all the sludge in the water effluent

### CURRENT STATUS

- Conducted problem interviews with 13 out of 20 from waste water consultants and Palm Oil Mills.
- Findings indicate the need to pivot. Based on several problem interview and lab testing, large amount is actually needed to tackle/absorb all the dirt and impurities in the water. Even though is can reduce BOD level but the cost is to high and not applicable in large scale production.



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