

Technical Information Sheet

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| 1. Name of technology | Effluent BOD removal technology (two-phase high load activated sludge system) |
| 2. Type of technology | This technology separates the biota in the activated sludge into two phases, enabling high speed, high performance treatment that generates less sludge. |
| 3. Description of technology | <p>[Objective and application of the technology] Removal of BOD in effluent</p> <p>[Characteristics of the technology]</p> <ol style="list-style-type: none"> (1) This technology keeps the concentration of dispersing microorganisms with a high decomposition rate at a high level, enabling high load treatment of organic substances at primary stage, hence enhancing treatment capacity up to a maximum of twice. (2) In the tanks at the subsequent stage with a lower load, microorganisms are captured by protozoan organisms or self-digested, reducing sludge production up to maximum of 80%. (3) Segregation of microorganisms prevents bulking, enabling stable operation. <p>Objective, application, characteristics, delivery record, and price of technology</p> <p>[Delivery record] This technology has been employed in several facilities.</p> <p>[Price and other inquiries] Please contact the office and person in charge below.</p> |
| 4. Classification of technology | |
| (1) Applicable fields | Industrial waste treatment, Hazardous industrial waste |
| (2) Target waste | Other (sludge, etc.) |
| (3) Services provided | Plant construction |
| 5. Countries to which this technology can be provided | No restrictions |
| 6. Keywords | Biotreatment, BOD, sludge reduction, microorganism, capacity enhancement |
| 7. Contact information | MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS, LTD. Water Treatment Sales Group, Environment System Sales Department +81-78-672-4121 |