



**PT. GRINVIRO BIOTEKNO INDONESIA**  
Water & Waste Water Treatment Company



# WATER AND WASTE WATER MANAGEMENT



**SuperO<sub>2</sub> Aerator**  
aeration TECHNOLOGY

**BIOGENIC**

**FLOWREX**

## TENTANG KAMI

PT Grinviro Biotekno Indonesia adalah perusahaan yang bergerak dalam bidang Water and Waste Water Management. Didukung oleh sdm yang berpengalaman dan peralatan laboratorium yang modern dalam riset dan analisa guna memberikan solusi pengolahan air untuk menjaga kelestarian lingkungan hidup

## MISI KAMI

Menjadi perusahaan terdepan dibidang *Water & Waste Water Management* yang berbasis teknologi terkini untuk menjaga kelestarian lingkungan melalui kerja sama jangka panjang yang saling menguntungkan dengan pelanggan, masyarakat, dan lingkungan

## OUR SERVICES :

- Sample Analysis
- Problem Identification
- Design
- Construction
- Commitioning and Training
- Operating and Maintenance

# WATER TREATMENT



## SEA WATER TREATMENT

- Sea Water Reverse osmosis

## SEA WATER TREATMENT

- Clarifier:
- Cone / Lamela Clarifier
- Ultra Filtration (UF)
- Reverse Osmosis (RO)
- Softener
- Demineralizer
- Sand Filter
- Carbon Filter
- Manganese Greensand
- Disinfection



## ULTRAPURE WATER TREATMENT

- Ultra Filtration
- Reverse Osmosis

## CHEMICAL FOR WATER TREATMENT

### A. Poly Electrolytes

- Raw Water Treatment
- Waste Water Treatment

### B. Boiler Water Chemicals

- Cleaning Chemicals
- Maintenance Chemicals

### C. RO Chemicals

- RO Cleaning Chemicals
- Anti Scalling

### D. Resins

- Determinalizer Plants
- Softener

### E. Cooling Water Chemicals

- Anti Scalling
- Anti Corroton
- Biocides
- Biodisperant Treatment





## CHEMICAL PROCESS

- Koagulasi
- Flokulasi
- pH Correction

## WASTE WATER RECYCLED SYSTEM

- Pre Polishing Stage
- Side Stream Membrane Bio Reactor (SS-MBR)
- Submerge Membrane Bio Reactor
- Organic-Color Removal

## DISSOLVED AIR FLOTATION (DAF)

Micro Bubble Technology



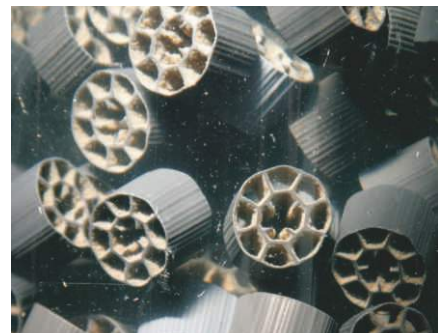
## BIOLOGICAL PROCESS

### 1. Aerobic System

- Extended Aeration
- Squencing Batch Reactor (SBR)
- Membrane Bio Reactor (MBR)
- Moving Bed Bio Reactor (MBBR)
- Sewage Treatment Plant (STP)

### 2. Anaerobic System

- Anaerobic Filter (AE)
- Upflow Anaerobic Sludge Blanket (UASB)
- Upflow Anaerobic Sludge Fix Film (UASFF)



## EQUIPMENTS

- Aerator
- Oil Skimmer
- Geo Membrane
- DAF

- Softener
- Demineralizer
- Clarifier
- Ion Exchange

- Reverse Osmosis
- Ultra Filtration
- Compact STP
- DII

## LABORATORIUM

Lab. Reagen & Equipment

Analisa Resin Ion Exchange

Lab. Reagen & Equipment

Analisa Air



### Analisa Air Bersih

- Analisa Cooling Water
- Analisa Air Boiler
- Analisa Raw Water
- (COD, TDS, Kadar, Fe, Kadar Mg, pH, dll)

### Analisa Air Limbah

- Jar Test
- Analisa Kualitas Air Limbah
- (COD, TDS, Kadar Fe, Kadar Mg, pH, dll)