Enriching Environment through Engineering

MLK Waste Management

About Us

MLK Waste Management has long believed in adding more value to the current practices of sewage treatment and water treatment in India by bringing in frugal innovation and smarter designs. We aspire to bring smarter, easier-to-use, aesthetically strong and most importantly, eco-friendly technology of liquid waste to the doorsteps of the masses.

Our experience in STPs & ETPs is of more than 450 projects. Through our projects, we recycle over 8.5 crore litres of Wastewater every day.

Our Team

Dushyant Sachdeva
Sales and Marketing

An MBA from SDA Bocconi, Italy, Dushyant has a total of 13 years of experience in Manufacturing and Sales, and spearheads the Sales and Marketing division at MLK Waste Management.

Harshit Sharma
R&D and Execution

B.Tech in Civil Engineering from IIT Bombay, Harshit had an extensive experience in Waste Management and the socio-political domain before co-founding MLK. He drives the R&D and the execution department.

MLK Waste Management LLP

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WASTEWATER TREATMENT COMPANY

Capacity	9+	Treating 9+ **crore litres** of wastewater daily across 450+ project locations
Nature-based Systems	80%	incorporating nature-based treatments in 80% of our projects
Presence	6	spanning over 6 **states** of India
Inhouse Expertise	50+	through an in-house team of 50+ dedicated professionals across various **verticals and geographies**

Data as of Jun 2025

Our Products & Services

STP - FOR DOMESTIC WASTEWATER

DEWATS + Vortex (Eco-STP)
Extended Aeration Activated Sludge Process
MBBR (Moving Bed Bio Film Reactor)
SBR (Sequential Batch Reactor)

CHATUR CHAUKAS

Packaged, underground STP for households

ETP (INORGANICA)

For industries, hospitals, hotels & restaurants

RAS

for high density fish farming

OTHER PRODUCTS

(OEM : Original Equipment Manufacturer of)

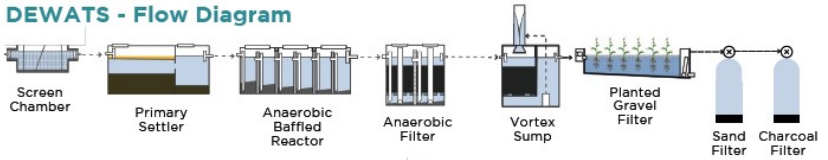
Electrical panel
Screening equipment
MLSS/ Bacteria culture
Coagulation and Flocculation System
Underground compartmentalised plastic tanks
Floating decanter
Drum filter
Pressure sand filter
Activated charcoal filter
Speece - Oxygen cones
Reactivation of old STPs

DEWATS

Key Advantages:

- No Electricity required for Secondary Treatment Process
- Sludge Generation is very low compared to Aerobic Systems, can be removed and dried bi-annually, or annually
- Vortex system can be used for polishing and smell removal
- Planted Gravel Filters/ Reed Beds can be coupled with vortex and constructed over the DEWATS top slab; thereby Reducing Area requirement

DEWATS - Flow Diagram



DEWATS Modules

Oil & Grease Trap

Used for capturing floating materials, it is provided only in cases where there is a high amount of oil and grease in the wastewater. Example: Restaurants.

Stage Preliminary Treatment:
Maintenance
- Remove trapped content, twice a month

Settler

The settler is a closed tank of two or three chambers with 2-3 hours of retention time that traps a significant portion of heavier solids and floating particles while letting the rest pass into the following modules.

Stage Primary Treatment 20-30%
Efficiency*
- Monthly inspection of wastewater flow.
- Monthly removal of scum.

Maintenance
- Removal of sludge: once in 1-2 yrs.

Biogas Digester

An improvised sedimentation tank as an alternative to the settler is suitable for wastewater with high organic content. It decomposes organic particles by anaerobic digestion and generates biogas, which is used as fuel.

Stage Primary Treatment 50-60%
Efficiency*
- Monthly inspection of WW flow
- Operation of the water trap

Maintenance
- Removal of sludge- once in 1-2 yrs

Anaerobic Baffle Reactor

Consists of multiple chambers in series, connected with downtake pipes. The wastewater is made to pass in an up-flow fashion, thereby establishing a contact with sludge blanket formed at the bottom. The combination of sedimentation and anaerobic sludge digestion ensures removal of suspended and colloidal particles.

Stage Secondary Treatment 75 - 90%
Efficiency*
- Monthly inspection of WW flow.

Maintenance
- Desludging every 2-3 yrs

Anaerobic Filter

Consists of up-flow chambers connected in series, partially filled with filter media. The biofilm formed on filter media traps and degrades finer suspended organic particles when wastewater passes through it. The filter media can be cinder, gravel, rock aggregates, corrugated pipes, specially designed plastic media etc.

Stage Secondary Treatment 75 - 90%
Efficiency*
- Monthly inspection of wastewater flow.
- Desludging every 3-5 yrs

Maintenance
- Washing of filter media- when treatment efficiency reduces.

Planted Gravel Filter

A shallow tank of graded gravel or pebbles and selected species of plants (such as Reed, Canna indica or Cyperus papyrus) to treat remaining pollutants by biological conversion, filtration and surface aeration. It can be integrated into the landscape.

Stage Advanced Secondary/ Tertiary Treatment 80 - 95%:
Efficiency*
- Monthly removal of weeds from top.

Maintenance
- Trimming of plants once in 3 months.

Vortex

This is a post-treatment module used for increasing oxygen levels in anaerobically treated water and for aiding nutrient removal. The water pumped from the tank undergoes a spiral movement inside the vortex, diffusing oxygen and expelling odour. It can be used as an alternative to the planted gravel filter.

Stage Post Treatment 80 - 95%
Efficiency*
- Regular maintenance of pumps.

Maintenance
- Cleaning the apparatus.

Tertiary Treatment: PSF+ACF

Adding a Pressure Sand Filter and Activated Carbon Filter will ensure water quality and stability for advanced uses like Flushing, floor washing, etc.

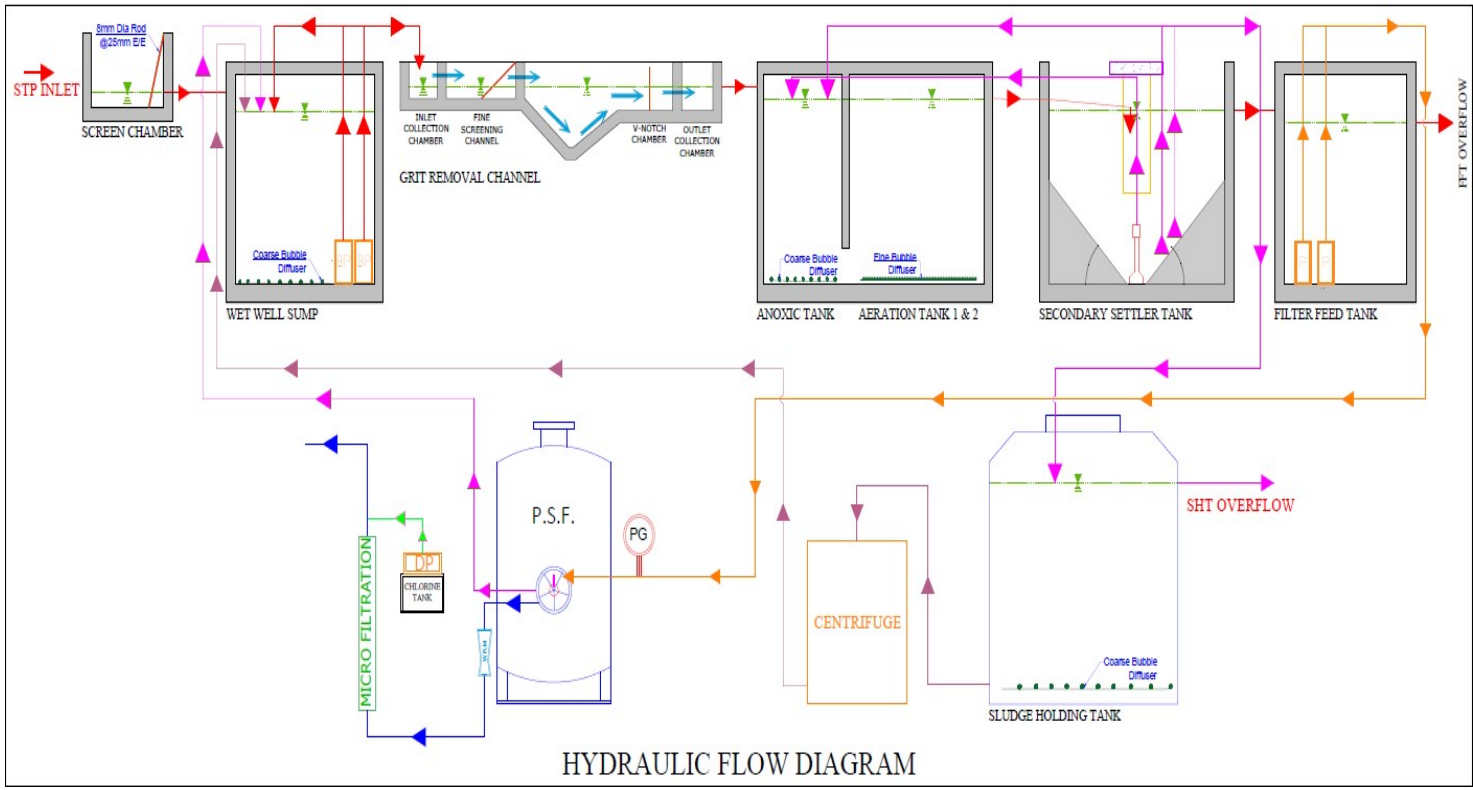
Stage Tertiary 95 - 97%
Efficiency*
- Daily Backwash and Yearly replacement of Charcoal media.

Maintenance

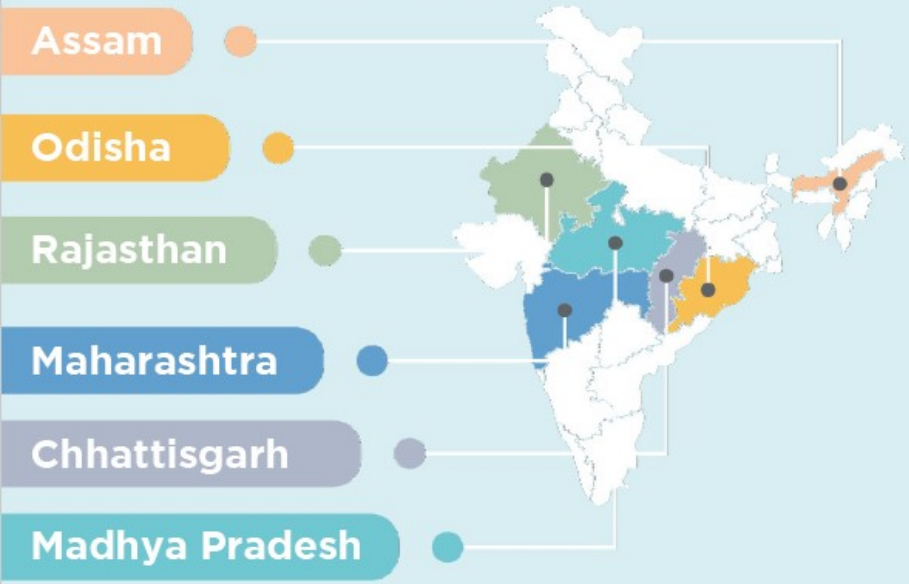
Extended Aeration Activated Sludge Process (EAASP)

Key Advantages:

- Minimal Machines required in the whole treatment process:
- No Sludge Recirculation pumps required, process can be done using an airlift pump
- No Primary sedimentation required, hence no sludge digestion required
- Sludge discarded is completely digested from the aeration process, and sludge volume is low as compared to traditional ASPs.
- We are not using Secondary Clarifier Scraper mechanism upto 5 MLD.



Our Presence



And growing.....

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WASTEWATER TREATMENT COMPANY

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