



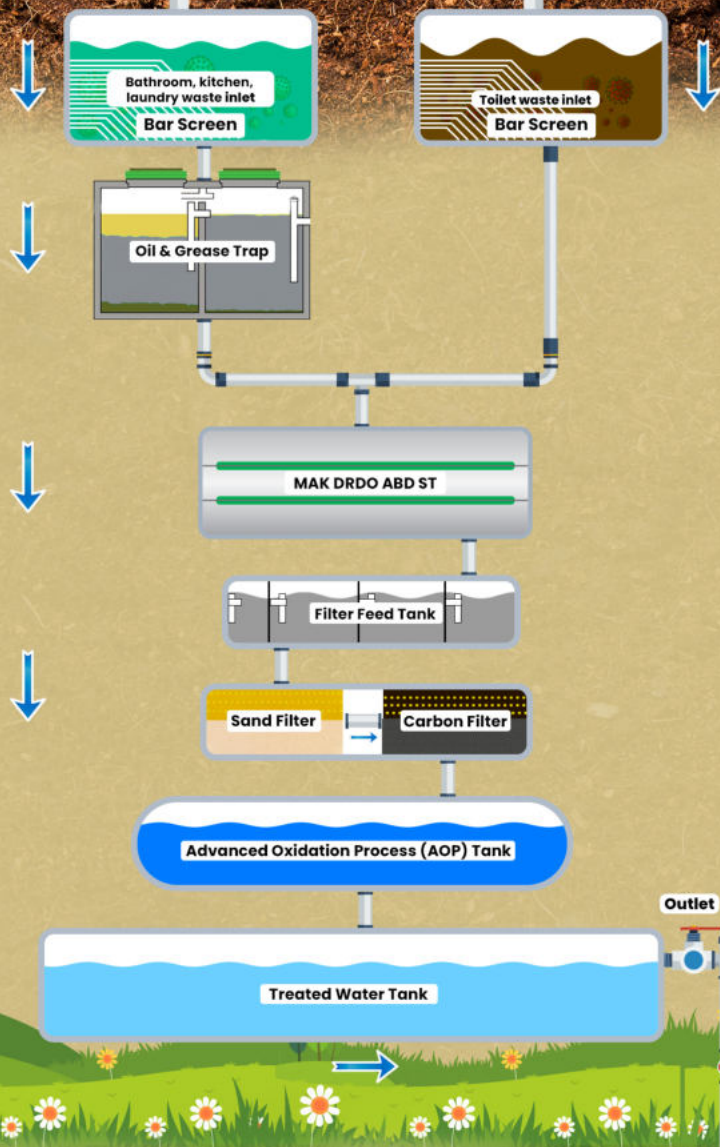
# MAK DRDO

## Anaerobic Bacteria Digestion Sewage Treatment Plant

### MAK DRDO ABD - STP WITH AOP TECHNOLOGY FROM CSIR



A Desired solution for your Apartments | Establishments | Industries **Fit & Forget Process**



- No sludge generation
- No bad & foul smell
- Re usable pure water
- Less power consumption
- Low maintenance
- 30% less OPEX than conventional STP

**Our MAK DRDO ABD - STP meets all discharge norms and even re-use norms for all purposes [ Irrigation, flushing of toilets, construction, discharge in water bodies, etc.]**

## ABOUT US

MAK Group, established in 1973 encompass MAK Controls & Systems (P) Ltd, Air+MAK Industries Inc. and MAK India Limited.

MAK Controls & Systems (P) Ltd and Air+MAK Industries Inc. is into design & manufacture of high tech engineering ground support equipment across various engineering fields for national aviation and defense sectors since four decades.

MAK India Limited is dedicated to provide "Solution For All Pollution" offers wide range of products and services to restore our Mother Earth to her original state.

Being a TOT holder from DRDO and CSIR, we play a major role in treating sewage water from small homes to huge communities across India.

## WHY MAK DRDO ABD - STP?

- These are fit-and-forget types with minimal maintenance requirements. They comply with all discharge norms and reuse standards for treated water across various applications such as irrigation, toilet flushing, construction, discharge in water bodies, etc.

### Treatment of Toilet Wastewater (Black water):

- To treat toilet wastewater separately is essential due to the challenges posed by faecal matter compared to other types of wastewaters.
- The Anaerobic Bacteria Digester represents a revolutionary advancement in sanitation. In conventional toilets, only 30% of human waste typically degrades, leaving the remaining 70% untreated in the septic tank.
- However, in ABD STP, up to 99.9% of human waste is digested by anaerobic microbial inoculum, converting it into reusable water.
- Anaerobic bacteria digester offer an eco-friendly disposal solution, requiring minimal maintenance, operating efficiently without relying on external energy sources, and producing odourless water.

### Treatment of Kitchen, Bathing And Laundry Wastewater (Grey water):

- Treating grey water is essential to prevent foul odors caused by decay of organic compounds particularly when left untreated for more than 48 hours in a tank, where certain aerobic bacteria thrive.
- To address this, we employ filters, oil skimmers / oil and grease traps for kitchen waste to prevent food materials from overloading the bacteria.
- AOP system is used to oxidise the organic and inorganic materials in the wastewater and thus it ensures complete degradation of various pollutants.

Our In House Fully Automated Inoculum Plant

5.50 lakhs liter capacity



## ADVANTAGES OF MAK DRDO ABD STP OVER CONVENTIONAL STP

S.No	PARTICULARS	MAK DRDO ABD - STP (with AOP technology)	CONVENTIONAL STP
1	Electricity	Very minimal (15%)	Huge
2	Chemicals	Not required because of biological process	Required and its adds another form of pollution to Mother Earth
3	OPEX for 100 KLD plant	< Rs 45,000.00 /month	Rs 1,04,000.00 /month
4	Sludge removal	No sludge residue	Huge sludge accumulation and so needed dedicated sludge transfer pump and sludge dewatering machine
5	Sludge pathogen risk	Nil	Very high
6	Operator	Semi skilled	Skilled



## MAK INDIA LIMITED

7/41 B, MAK India Road, Goldwins, Civil Aerodrome Post, Coimbatore, Tamil Nadu, India - 641 014.

+91 95009 91787 | +91 95009 79623 | 0422 430 5074

bioprojects@makindia.co.in | www.makbioprojects.com

For Quick Contact  
Scan QR Code

