



Technology from DRDO
Government of India

A REVOLUTION IN SANITATION



✓ No Evacuation



✓ Zero Maintenance



✓ No Foul Smell



✓ Reusable Water

MAK DRDO ABD BIO SEPTIC TANK

Save Mother Earth From Ground Water Pollution

Prevent Sewage Pollution

Say Good Bye to Deadly Diseases!

- Diarrhea
- Chikungunya
- Bronchitis
- Malaria
- Dengue

ONE STOP SOLUTION FOR SEWAGE WASTE MANAGEMENT



10 USERS

Capacity: 800 Litres

Upto 10 Nos. of Toilet Users / Day



20 USERS

Capacity: 1600 Litres

Upto 20 Nos. of Toilet Users / Day



40 USERS

Capacity: 2900 Litres

Upto 40 Nos. of Toilet Users / Day



100 USERS

Capacity: 8000 Litres

Upto 100 Nos. of Toilet Users / Day

About us

MAK group was established in 1973. MAK Controls & Systems (P) Ltd, Coimbatore, India and Air + MAK Industries Inc., USA designs, Manufacture high tech engineering, Ground Support Equipment across various engineering fields for National Aviation and defense sectors for last four decades.

MAK India limited (MIL) is specialised in R&D-based innovation and indigenous solutions for every pollution, which are affordable in costs, establishments, operation and maintenance. MIL's products are commercially viable and is sustainable making truly zero waste management system.

MAK holds life time Transfer of Technology (TOT) for the DRDO Bio digester Septic Tank Technology. MAK has installed 1000s of Bio digester Septic Tanks for toilet and sewage wastewater management across South India. Mak Bio-digester Septic Tanks are Manufactured in readymade units and it can be used for small houses to apartments, schools, colleges, institutions, hospitals, hotels, industries, etc. We have inoculum production capacity for 5.6 lakhs litres.

Why Bio Septic Tank?

Mak Bio digester Septic Tank is a "Fit and Forget" Model. It's a revolution in sanitation with "Nip It At The Bud" Concept. In conventional toilets only 30% of human waste is degraded and other 70% remains in the Septic Tank. In Bio digester Septic Tank, human waste gets digested upto 99.9% through Anaerobic microbial inoculum method. In the Bio Septic Tank toilet waste gets converted into reusable water for irrigation purpose.

Disposal of Human Waste through conventional systems leads to ground water contamination and pollution of Natural resource that might cause an epidemic outbreak. Bio digester provides Eco-friendly disposal of human waste. It is maintenance free, efficient without dependent on any energy source.

Our In-House Fully Automated Inoculum Manufacturing Plant



Comparison

SL.NO	MAK BIO DIGESTER SEPTIC TANKS	CONVENTIONAL SEPTIC TANKS
1	No Foul Smell	Obnoxious smell from Septic Tanks
2	Need Less Space	Need larger space
3	Eco-friendly and Hygienic	Unhygienic disposal of human waste leading to surface and ground water pollution
4	More than 99.9% Pathogens digested	Possibility for spread of diseases
5	It's Odourless and gets recycled water	Contaminated Water
6	No Maintenance for life time. Only one time feeding of Bio bacteria inoculum	Needs periodic evacuation of sewage and maintenance intensive

Salient Features

- ✔ Completely eliminates the need for manual scavenging
- ✔ Eco-Friendly and 100% maintenance free
- ✔ No foul smell in recycled water
- ✔ Single time feeding of inoculum bacteria throughout operational life
- ✔ Faecal matter in the Bio Septic Tank is not visible
- ✔ No clogging of digester
- ✔ No bad smell from the Bio Septic Tanks compared to conventional septic tank.
- ✔ Bio digester Septic Tank is made up of RCC for life time warranty
- ✔ Anaerobic bacteria can double its population within 6 to 8 hours
- ✔ Decomposes Faecal matter into water and gases
- ✔ Outlet water from Bio Septic Tank can be used for irrigation. Further processing of output water through aerator, sand/carbon filter, UV processing and ozone stroke are given based on customer needs. We can achieve potable quality water to make it drinkable, washing clothes, reuse for flushing of toilets.

Our Standard Product

MODEL	NUMBER OF USERS	SECTORS
BST - 10	10 Users Tank	Individual Houses
BST - 20	20 Users Tank	Offices / Complex / Community Toilets
BST - 40	40 Users Tank	Hotels / Industries / Apartments
BST - 100	100 Users Tank	Schools / Colleges / Hospitals / Hotels / Industries / Community Toilets / Apartments
BIO STP	For Any Size	Need No Electricity, it's compact, Chemical Free & 100% Eco-friendly
BST Custom Design	For Any Size	As per customer requirements
Bio Toilet Cabin	Single to Multiple Cabins	Movable to Any Place



MAK India Limited

7/41-B, Avinashi Road, Civil Aerodrome Post, Coimbatore - 641 014, INDIA

(+91) 63664-49352 | (+91) 95009-91787 | 0422 430 5074

info@makindia.co.in

www.makbioprojects.com



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