

BIOMINICRY TECHNOLOGIES PRIVATE LIMITED [A Company To MIMIC Nature]

Towards Cleaner Future



WASTE WATER TREATMENT SYSTEM B 1, Administrative Building, RCC Structure, Survey No. 480/2 AMTZ Pvt. Ltd.,

Nadupuru(V), Visakhapatnam 530 031, Visakhapatnam, Andhra Pradesh 530002

KNOW YOUR WASTE WATER

KNOW OUR TECHNOLOGY

Our System

Proven & Reliable Membrane Technology transferred from IIT **Chemical Free Process** Odour Free Lightweight Easy To Install Quiet And Economical

Solar Powered / Low Energy Consumption Membrane Based Technology

The Urban Pure system uses an advanced treatment process with the latest water recycling technology. It uses patented membrane based technology to treat and recycle waste water ensuring bacteria and harmful pathogens are removed

How It Works

1. Waste water from the drain flows into a 2000L collection well installed in the ground with overflow to sewer or treatment system in the case of high peak flow. On demand the pump in the collection well transfers the untreated Waste water up into the Urban Pure waste treatment unit

2. There, the waste water is treated through constant aeration to break down any organic matter. The unit is a membrane bio-reactor with flat sheet membranes unique to Urban Pure. The treated Waste water is drawn through submerged membranes with less than 0.8 microns, allowing only pure, cleaner water to pass through.

3. Finally, the clean water receives UV treated water

Water Treatment Capacity

Capacity :- 20KL

KNOW OUR COMPANY

ABOUT US:

BIOMIMICRY TECHNOLOGIES PRIVATE LIMITED is a company at AMTZ Campus in VISAKHAPATNAM.ANDHRA PRADESH. INDIA. It is a manufacturing unit that manufactures wide range of products from Grey water treatment Plants/System, medical grade electronics to high value added medical service. BTPL plans to realise a positive progress towards sustainable growth to become a leader in global market.

VISION:

Vision of BTPL is to be a self-sufficient Make in India manufacturer through effective utilization of facilities and infrastructure. We strive to achieve high technologies and productivity consistent with modern environment practices. At BTPL we recognize that honesty and integrity are essential ingredients of a strong and stable enterprise. Our endeavour is to encapsulate all of the above, to create a Robust Technology company.

MISSION:

We, at BTPL, are committed to customer satisfaction, we shall meet customer needs and expectation by timely delivery of quality products through continuos improvement of technology, infrastructure and work environment with innovation and total participation. To become an internationally recognized company manufacturing a Quality Product by adapting to international standards & techniques, to ensure total customer satisfaction.

🐡 MAKE IN INDIA INITIATIVE Our idea is We are We are High

we are

quality

to invent new technology in Electronics and make India self sustainable

devices.

nts are used to make the quality, accurate & reliable in manufacturing medical grade medical grade electronic electronic products.

grade, following compone the standards of ISO 13485:2016 are being followed procedure.

We are following usina ISO ISO 9001:2015 14001:2015 standard for standards are quality check and being followed by our in our production also following TQM company system for our with eco- friendly packaging material assurance

TEST REPORT						
S. No.	Parameters	Unit	Input Water Test Result (Grey Water)	Output Water Test Result (Treated Water)	Remarks	
1.	Turbidity	NTU	417	<10	IS 3025 (P-10)	
2.	Total Suspended Solids(TSS)	mg/ltr	348	<10		
3.	Biological Oxygen Demand (BOD)	mg/ltr	>98	<10	IS 3025 (P-21)	
4.	Dissolved Oxygen (DO)	mg/litr	5.2	6.8		

What is waste water?



Potable(or Clean) Water

Definition: Clean water that's safe for human and animal consumption. Sources: Springs, well, rainwater, purified water, city water Definition: Used water without toxic chemicals and / or excrement Sources: The relatively clean wastewater from baths, sinks, washing machines, and other kitchen appliances (soapy water)

Greywater



Blackwater

Definition: Contaminated water with toxic chemicals and/or excrement Sources: Wastewater from toilets, garbage disposals, and industrial processes

Why should we need to recycle waste water?

Approximately 50-70% of the water used in a house and industries results in waste water generation and not even 5% of this is recycled in. This water is suitable for in-situ recycling using simple, low-cost technologies, and it is rather unfortunate that the concept is not commonplace in a water-starved country like India. Reusing wastewater is a crucial part of the sustainable management of water resources. Waste water can be an important alternative water source, especially in arid and touristic areas, where the biggest water demand is usual in the dry period. The potential ecological benefits of waste water recycling include:

Reduced freshwater extraction from rivers and aquifers, Less environmental impact from septic tanks and water treatment plants,

Reduced energy use and chemical pollution from water treatment,

Groundwater recharge and reclamation of nutrients.

De WTS



SPECIFICATION

Material: GRP (Glass Reinforced Plastic) Technology: Holofibre Membrane Technology Transferred from IIT Dimension: 2-5 sq.m Capacity: 20KL

GENERATION

Waste water generated from

APPLICATION

Civic Bodies, Commercial & Industry



Municipal Corporation



Factories(All sizes)





Commercial Pre



















RE-USE

Park Irrigation Cleaning **FireFighting Industrial Process** Wall Garden Irrigation **Public Utility Road wash** Toilet



WASTE WATER FROM DRAIN

SAND+ GRAVEL+ ACTIVATED CARBON



EQUALIZATION TANK

PROPRIETARY CHEMICAL

TREATMENT







UV + ACTIVATED

CARBON FILTER



FINAL TANK FOR DISCHARGE



HOW DOES IT WORK?

PRIMARY AERATION CHAMBER **COARSE BUBBLE**

MEMBRANE BIOREACTOR CHAMBER (FINE BUBBLE)

RESTORING GLORY OF RIVER, LAKES & PONDS

In India, the per capita water availability is reducing day Restoring Glory to small rivers/lakes and ponds.

Delhi used to have at least 4 good sized tributaries, out of which the major one was Sahibi river used to travel from Aravali near Jaipur to Delhi and now days we famously know her as Najafgarh Drain...

Can the Glory be restored? Yes government has made a conscious effort to improve Najafgarh Drain which at end ends in Yamuna river in Delhi and further Yamuna leads to merge in holy river Ganga at Prayagraj. We believe if most of the small waste water drains can be tapped before conjunction point with Sahibi which are difficult/ impossible to connect to STP then we can ultimately achieve back her glory and beauty...

As a term we did a survey of Ganga under professional contract by NBCC for the final client as NMCG. We found out that hundreds of waste water drains which are directly flowing to Ganga and can not be connected to a sewage treatment facility..

If that can be treated before it flows into the Gangas then the same can be treated and ponds can be created which can improve the situation to the next level.

As the solution we have stand alone and solar powered, economical, and efficient solution to restore...small rivers/lakes pond of national and local importance.

Similarly, deep in south in Chennai two rivers Cooum and Adyar in very pathetic condition for many years due to industrial and household waste water inflow into it. In 2017, Madrad High Court in one order again PIL ordered to take immediate step to restore its glory. Some STP plants were installed but it didn't work as they were not cost effective and stopped working in lack of proper maintenance. Situation is same with river Neyyar in Thiruananthpuram, Narmada river in western India



STATUS REPORT

Ground water depletion is a major challenge in India as a result of increase in population and increase in consumption per capita. Exploitation of ground water reserves is creating a large adverse gualitative and quantitative impact on ground water reserves. As per information available from local population of Delhi NCR we understand that ground water was at between 3-10 meters level which has gone down to 40 to 80 meters plus level in just two decades. Government has also issued multiple advisories and regulations for not using ground water for horticulture nd irrigation purposes but in lack of alternative and availability issues cost of treated waste water is very high hence still most of the parks are using ground water to sustain in extreme heat which certainly is amounting to huge ground water depletion and creating irreversible loss to strategic ground water reserve. We as team has been working on water resources management since last 20 years and have identified the challenges of water for parks and gardens along with power consumption patterns of water treatment facilities. Thus we are proud to share a solution developed with technology approved/ developed by IIT Kharagpur along with in house water expert team. Now any park can tap any nearby drain passing by the park and convert the grey water of that drain water with the help of solar energy and advance sequence membrane bio reactor (SMBR) to good for irrigation/ horticulture water with less than 10B0D, Less then 10 TSS, Less than 10 Turbidity and with good dissolved oxygen of more than 6.5 level. The solution is 100% developed and made in India which is most compact system available in the market with least energy consumption. Maintenance cost is also minimal. We provide field warranty of the system and one year free comprehensive operation and maintenance. Our system does also have great design and aesthetic value and have vibrant colour wall garden canopy. This has successfully been in operation at A-one Ply Kolkata and Starex dry cleaner Ghaziabad since last 1 years.

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