



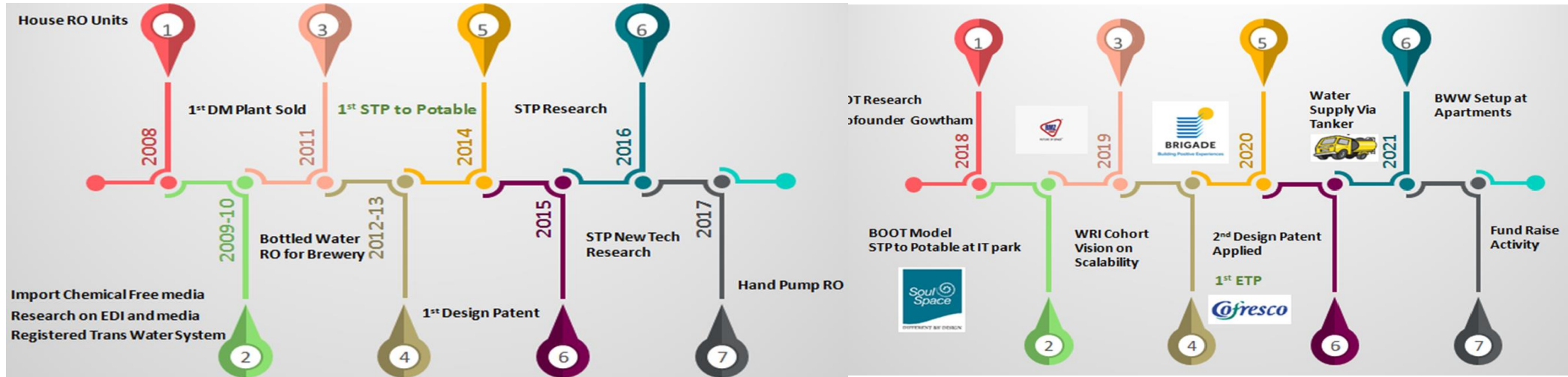
By Transwater System Pvt. Ltd

Creating The “3rd Source” of Water



About Transwater

Journey so far and Key milestones



Going strong 2022 → with more than 750 satisfied customers and 20+ complex wastewater projects



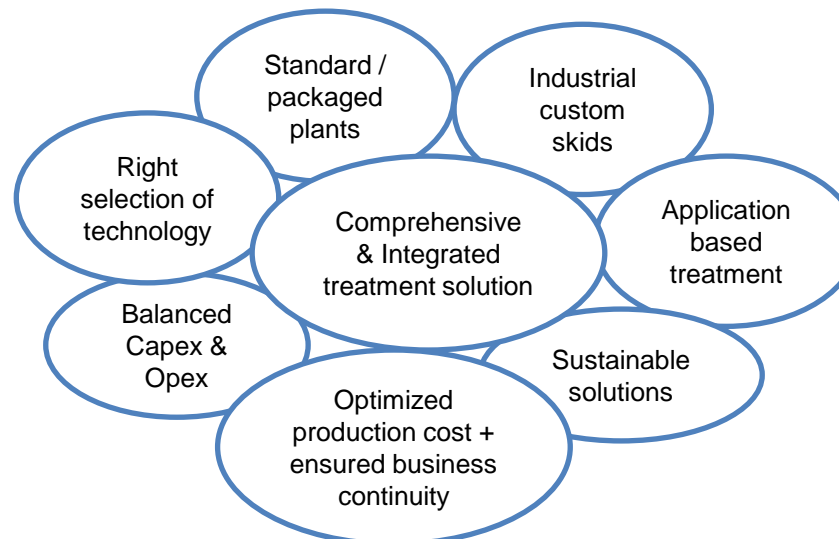
What we offer

Products and Applications

1. Media filtration (Sand, Carbon Dual)
2. Advanced Silica filtration (Glass bead media, Aluminium Silicate)
3. Screen filters, disc filters, strainer filters
4. Membrane filtration – Ultrafiltration
5. Softeners and DM plants – IX based (Standard and advanced Resins)
6. Advanced Nano filtration
7. Reverse Osmosis
8. Sewage treatment plants – Packaged and custom (Advanced MBR technology)
9. Industrial utility water and cooling water
10. Industrial effluent treatment solutions
11. Tertiary treatment and recycling
12. Zero Liquid Discharge (Thermal)
13. Comprehensive Annual Maintenance Contracts
14. One time/On call Service support
15. Operation and maintenance
16. High quality recycled process water supply

Industries and Institutions

1. **Sewage treatment** – Residential, Institutional and commercial establishments
2. **WTPs (filters, softener & ROs)** – Independent villa, Luxury home, institutions, IT parks, hospitals, residential and commercial complexes, clubs, microbreweries, manufacturing and process industries
3. **BOSON treated STP recycling and high quality treated water distribution** – Residential and commercial establishments and industries (Indirect Potable Reuse)
4. **Industrial Wastewater treatment (ETP/Recycling)** – Breweries, distilleries, F&B, Hospitality, laundry, automotive, electroplating, textile, processed food, chemicals, auto components, machining, biotech etc.



BOSON[®] Whitewater

Existing urban infrastructure dependent on fresh water

Urban population in India is > 35%



Residential complexes



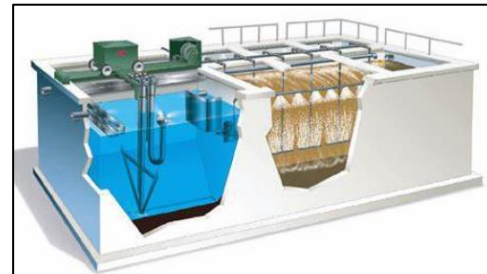
Commercial establishments



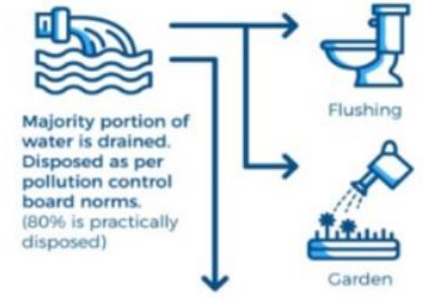
Institutions and IT Parks



Industries



Sewage/Effluent treatment plant - Individual



> 80% Partially treated wastewater sent to Drain



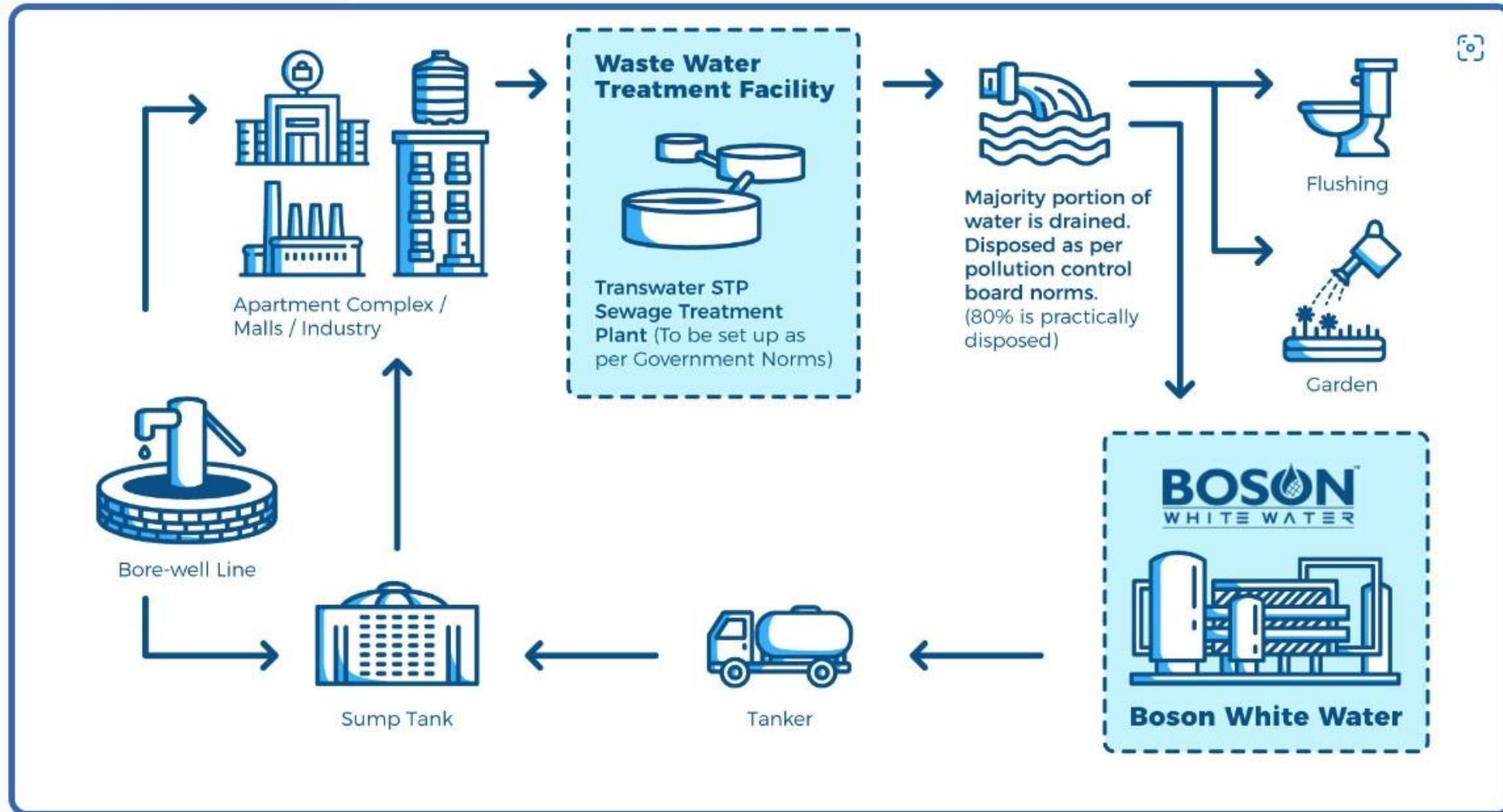
Municipal Sewage Treatment Plant



Fresh water –
 Surface supply (Municipal supply / Industrial association supply)
 Borewell – Direct / tanker
 Multi source (Unknown source) / Tanker *

Note : – Time to learn from the Industries
 Many industries {including large Multinational F&B companies} are using recycled water for more critical and direct food contact and other Indirect Potable Reuse requirements.
 Also achieving compliance requirement of 'Zero Liquid Discharge'

BOSON Whitewater set up



WASTEWATER TREATMENT AND BOSON® WHITEWATER

SI No	Name of the customer	Project Details / Technology	Capacity in KLD	Application	Year of Installation
1	Brigade Orion Mall	Boson® Whitewater	336	Treated Sewage recycling	2019
2	RMZ Ecoworld	Boson® Whitewater	240	Treated Sewage recycling	2019
3	Visshudh	ETP & Boson® Whitewater	150	Industrial effluent	2020
4	Vakil group	Boson® Whitewater	240	Treated Sewage recycling	2019
5	Dynamics	MBR STP	30	Sewage treatment	2018
6	MIMS builders	04 No.s of STP	30 – 140	Sewage treatment	2020
7	Sri Satya Sai Ashram	MBR STP	40	Sewage Treatment	
8	Pramukh Aqua Heights	Boson® Whitewater	120	Treated Sewage recycling	2021
9	SJR Verity	Boson® Whitewater	150	Treated Sewage recycling	2021
10	Karnataka Automates	Combined ETP	40	Wastewater treatment	2017
11	Laundry Labs	ETP + Boson® Whitewater	48	Laundry effluent	2022
12	Jeeves	ETP + Boson® Whitewater	48	Laundry effluent	2021
13	GM Infinite	Boson® Whitewater	200	Treated Sewage recycling	2021
14	Lemon Tree Hotels	Tertiary treatment UF	120	Treated STP water polishing	2019
15	Sqaure Meals Pvt LTd	ETP	20	Industrial effluent	2023
16	Brigade Avenue Mall	Boson® Whitewater	60	Treated Sewage recycling	2023
17	Mercedes Benz	Boson® Whitewater	120	Treated Sewage recycling	2023

WATER QUALITY HIGHLIGHTS

Quality Parameters	Raw Sewage	STP Treated water	BOSON White water
BOD ₅ mg/l	300 – 350	< 30	NIL
COD mg/l	500 – 600	< 150	NIL
TSS mg/l	100 - 400	< 20	< 3
Turbidity NTU	Up to 300	< 20	< 1
Color Hazen	Up to 500	< 50	Below detectable limits
Odour	Objectionable	Light Odour	No Odour
TDS mg/l	1000 - 1200	1000 - 1200	< 100
Faecal Coliform MPN/100 ml	-	< 100	Below detectable limits



Awards and Impacts



CNN – MISSION PANI – WATER WARRIOR Award.
(4 People in India shortlisted)

Republic TV - HarEkBOOD

Times of India – on Our work

WRI – Cohort

Amrut 2.0 ₹ 20 lacs prize



AMRUT 2.0 STARTUP CHALLENGE

They have developed the BOSON White Water System, a decentralized potable water recovering system designed to recover potable water from the partially treated wastewater produced in existing Sewage Treatment Plant.

Name: Vikas Brahmavar
Email: vikas@transwaters.com

Knowledge Partner : Administrative Staff College of India
www.washinnovationhub.in

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Recognition

WRI INDIA ROSS CENTER Citi Foundation TheCityFix Labs

10 finalists. 3 sectors. Building a Better India.

THE BETTER INDIA

UDAYA NEWS

Time to Drink Your Recycled Water! This Bengaluru Firm Will Make It Happen!

The brainchild of Vikas Brahmavar, the company believes in keeping the water as natural as possible with all non-desirable properties removed or reduced to desirable levels depending on the application or requirement.

Flats with STPs use only 60% treated water

WATER WARRIORS

Transwater Systems

YOURSTORY

This Bengaluru-based startup takes water from sewage treatment plants, and converts it into potable quality water that can be used for household purposes, and even for drinking.



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 ಕರ್ನಾಟಕ ಸರ್ಕಾರ
 ಬುಧವಾರ, ೯ ಫೆಬ್ರವರಿ 23, 2019

दैनिक भास्कर
 DainikBhaskar.com



asianet news

बोसोन व्हाइट वाटर; ऐसा स्टार्टअप जो सीवेज प्लांट के पानी को दोबारा इस्तेमाल लायक बना कर सालाना 3.6 करोड़ लीटर पानी बचाता है

New-delhi News - भारत में जल संकट तेजी से बढ़ी समस्या का रूप लेता जा रहा है। नीति आयोग की एक रिपोर्ट के मुताबिक 2020 तक देश के 21 बड़े शहरों..

Bhashk News Network | Feb 11, 2019, 02:21 AM IST



भारत में जल संकट तेजी से बढ़ी समस्या का रूप लेता जा रहा है। नीति आयोग की एक रिपोर्ट के मुताबिक 2020

XYNTEO

CNN NEWS 18

The Vanguard team also met [Boson White Water](#), a Bengaluru-based startup that recycles wastewater from large corporate and residential buildings, treats it on-site and sells the drinkable water back at a cheaper rate and at a higher quality than the tanked-in supply. Considering the urgency of India's water scarcity challenges and depletion of ground water, Boson's work has a really critical societal relevance.



Startup's Filtration System Makes Water From Sewage Treatment Plants Fit For Drinking



Boson WhiteWater is a Bengaluru-based water utility startup founded by Vikas Brahmavar. It converts treated wastewater (STP Water) into high-quality potable water by employing artificial intelligence (AI) and the internet of things (IoT).

Time to put wastewater to good use

With water scarcity in India becoming alarming, industries and apartments should use tech to treat and reuse wastewater

INDIAN cities are facing a water scarcity crisis with close to 800 million people lacking access to clean water. According to a report by Observer Research Foundation (ORF), the demand for water in India is expected to grow at a 2.8 per cent Compound Annual Growth Rate (CAGR) from 2010 to 2030, facing a potential supply gap of 50 per cent by 2030. This could adversely impact agriculture and other key industries like food processing, beverages, textiles, etc., causing significant dent to the GDP by 2030.

When we talk about water shortage, industrial water usage is rarely given the needed attention. According to a research by the Central Pollution Control Board (CPCB), industries utilize over 500 billion cubic metres of the total amount of fresh water available each year. There is no doubt there will be a further increase in demand for water for industrial purposes.

While water usage in industries is one side of the story, the other issue is the wastewater discharge that can massively pollute our rivers. Industries can play an important role in sustainably managing their water usage and enhancing the way they manage their wastewater.

Simply put, wastewater is the water used once by domestic, industrial and commercial use. Household activities like washing, bathing, restroom usage, etc., result in water waste while industrial wastewater emerges from activities like manufacturing, production, etc.

Technological development means that waste water can be treated to varying degrees and re-used, making it a promising solution to tackle the problem of water scarcity. While treated water waste can be re-used for several industrial and domestic purposes, the by-products of wastewater treatment can be invaluable resources for agriculture and possibly energy generation.

While there is a scarcity of freshwater resources, it is observed that a potential source of water which is wastewater, is largely underutilised. According to the ORF report, if India reuses 80 per cent of its untreated wastewater from one of its most populous cities, 75 per cent of its projected industrial fresh water demand can be met by 2025 replacing fresh water use.

The recently adopted National Framework on the Safe Reuse of Treated Wastewater provides operational guidelines for States to take up programmes on wastewater reuse. Many States have adopted their own wastewater reuse policy which should provide a fillip for the setting up of treatment plants and reuse.

Singapore's policy of wastewater management is a good example, which demonstrates the benefits of implementing an advanced wastewater treatment system using high tech treatment plants. Today the little island country is able to meet 40 per cent of its water demand from recycled wastewater and this figure is expected to rise to 50 per cent by 2030.

Apart from reducing ocean pollution and saving treated water for industrial purposes, some part of the treated water is also used for drinking purposes. Town cities like San Diego and communities in Hawaii and Australia use recycled water for drinking.

Water reuse is possible and economically feasible at smaller, decentralized scales too. One of the ways in which industries can efficiently manage their water is by converting their wastewater into high quality clean water that can be used for their internal purposes.

One such example is Bengaluru-based Mohad Plastic. People and Jewels India Laundry that have installed a unique in-plant filtration process by Boson WhiteWater. Apart from recycling their wastewater into high quality clean water that can be used for their internal purposes, they also generate revenue from the high-quality water by enhancing the sales of this water to industries.

This has proved to be a win-win situation with apartments not only becoming self-sufficient but also contributing to the health of the environment in a positive way. Apart from dealing with water scarcity effectively, they are also getting the water to meaningful use while industries reduce the dependency on bore-well water.

With appropriate water reuse technology and right implementation, industries and apartments can definitely reduce their wastewater usage and leverage on its potential to the best possible level.

The water in an urban planner and a water conservation expert



Working towards making our country successful

Additional information about our technology and Latest publications

Following are the URLs you can visit for further information:

<https://www.linkedin.com/company/bosonwhitewater/>

<https://www.youtube.com/watch?v=zYUMYMbiN8U>

<https://www.youtube.com/channel/UCpch0s11g65cmOfjVTDZqPg>

https://www.youtube.com/watch?v=WM62z_CWm0s

News and Publications :

<https://thelogicalindian.com/responsiblebusiness/bengaluru-based-company-converts-stp-treated-water-into-clean-water-35185>

<https://www.republicworld.com/initiatives/har-ek-boond/boson-white-water-converts-stp-treated-water-to-clean-potable-water.html>

<https://timesofindia.indiatimes.com/city/bengaluru/city-apartments-sell-recycled-water-to-industries-get-rent/articleshow/91551655.cms>

<https://www.apnnews.com/boson-whitewater-partners-with-tankerwala-to-supply-whitewater-to-malls-and-industries-in-bengaluru/>

Connect with us

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