# **OUR VALUABLE CUSTOMERS**





### WELSPUN GROUP Leading Tomorrow Together

### SINTEX-BAPL LIMITED

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# PACKAGED SEWAGE

World over there is now recognition that decentralized wastewater treatment Is a better and efficient alternative to a centralized Wastewater treatment system from the angle of investment and energy consumption. There are many areas within cities, towns and villages that are impossible to cover through centralized treatment system. It has, therefore, become imperative to employ decentralized treatment systems that take care of proper treatment and disposal of sewage.

In line with our innovative approach, we now bring to you Packaged Sewage Treatment Plants that are compact and can be used in a decentralized manner anywhere for water treatment. For delivering the best solution we have implemented technology which is an advanced version of MBBR.

Sintex Packaged Sewage Treatment Plants are based on anaerobic and aerobic process and are designed to have dual functions for efficient treatment of domestic wastewater from toilets, bathrooms, kitchens and washing area.

# **AVAILABLE IN TWO VARIANTS**

- Series NBF is designed for medium and large applications like High-rise Residential Apartments, Commercial Complexes, Super Mall, Hospitals, Hostels, Universities, Schools, Large Office Buildings, Factories, Institutions etc.
- Series PWTS-STBF is made for domestic and commercial applications such as Individual Houses, Low-rise Residential Apartments, Villas, Bungalows, Row Houses, Dhabas, Restaurants, Canteens, Offices, Small Factories, etc.

	FEATURE	
2	100% ECO-FRIENDLY	Sintex STPs keep the soil it reduces BOD by betw
<b>0</b>	LEAK PROOF	FRP/Roto PSTP tank ensu Metal Tank
J	LIGHT WEIGHT	FRP/ ROTO PSTP are mud easy to transport, unloa
N	ZERO FOOTPRINT	FRP/ ROTO PSTP are insta available for other uses
Ø	RUST PROOF	The material used for ma moulded plastic which v
Ø	DURABLE	As these PSTPs are rust p exceeding 50 years
*	EASY TO INSTALL	As these PSTPs are comp
<b>?</b>	COST-EFFECTIVE	Sintex STP operations an convetional STP as they
<b>()</b>	ENERGY-EFFICIENT	Energy consumption of
		Sintex STPs need sludge conventional STP <u>s whic</u>

### **OPERATION PRINCIPLE**

### 1 Solid Separation Zone (Anaerobic Zone)

First stage transforms the influent solids to settled solids while allowing scum to float on the surface. It is a primary sedimentation zone in which settled sludge is stabilized by anaerobic digestion. The treatment efficiency of the chamber is in the range of 30% BOD removal.

## 2 Aeration Zone (Aerobic Zone)

the surface area and retains micro-organism long enough to digest the organic substance. around 60%.

### 3 Final Sedimentation Zone

Final stage involves sedimentation where organic waste are settles in the sedimentation zone. The settled waste in the bottom is pumped back to the solid separation zone as a from this zone is effluent that meets the stipulated PCB's Standards.

### 4 Optional

For more Stringent effluent parameter, we also offer Tertiary Treatment Plant (TTP) addition to the system which does the job of filtration that further improves effluent.



### BENEFIT

- safe from contamination and improves its quality as en 90-95%
- res no corrosion and leakage unlike an RCC or
- ch lighter compared to metal which makes them and install
- Illed 100% under the ground making the land hus ensuring zero footprint
- king the PSTP is fibre reinforced plastic & roto ill never get rusted.
- roof and leak proof hence they have a life span
- pact and light in weight making them easy to install.
- maintenance cost are much lower compared to do not need specialized and skilled manpower.
- intex STPs is atleast 50% less than conventional STPs
- andling once in 12-18 months compared to require the same every 10-15 days

- Second stage is the aerobic zone along with plastic media inside the tank which in turn increases Clear water overflows to the next treatment chamber. Air is provided through blowers and higher contact time with the Bio-film on the plastic media facilitates efficient digestion. BOD removal is
- return sludge having active biomass (MLSS) to increase the efficiency of the system. The output

# **NBF SERIES** FOR MEDIUM AND LARGE APPLICATIONS





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## **APPLICATIONS AND USES**

- Residential and Commercial Complexes Temples
- Public Gardens and National Parks
- Hotels And Resorts
- Restaurants
- Industries

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Institutions

# **RANGE & SPECIFICATIONS**

	SPECIFICATION	MODEL																
		NBF- 10	NBF- 15	NBF- 20	NBF- 25	NBF- 30	NBF- 35	NBF- 40	NBF- 45	NBF- 50	NBF- 60	NBF- 70	NBF- 80	NBF- 90	NBF- 100	NBF- 120	NBF- 150	NBF- 200
	Flow rate per day(KLD)	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120	150	200
No. of Users	Residential (150 LPCD)	67	100	133	167	200	223	267	300	333	400	467	533	600	667	800	1000	1300
	Office (80 LPCD)	125	187	250	312	375	437	500	562	625	750	875	1000	1125	1250	1500	1875	2500
	Toilet (50 LPCD)	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2400	3000	4000
	Educational Institutions (80 LPCD)	125	187	250	312	375	437	500	562	625	750	875	1000	1125	1250	1500	1875	2500

\*LPCD: Litres per capita per day \*KLD: Kilo litres per day



Dig the cavity of the required size and carefully place the tank in it



Fill the area surrounding the tank with Gravel



- Government Offices
- Labour Quarters
- Townships
- Hostels
- Hospitals



Step 3

Now cover the entire area with soil and you can use the space for any other purposes thus leaving a Zero footprint



# AEROBIC PWTS-STBF SERIES FOR DOMESTIC AND SEMI COMMERCIAL PLACES

# Sintex



		Nu	mber of l	Dimension						
Model	Flow rate per day(KLD)	Residential (150 LPCD)	Office (80 LPCD)	Educational Institurions (80 LPCD)	Toilet (50 LPCD)	Canteen (20 LPCD)	Diameter (mm)	Height (mm)	Inlet/Outlet Pipe(mm)	Vent (mm)
WTS-STBF-0120-01	1.2	6	8	8	16	30	1300	1400	100	50
WTS-STBF-0160-01	1.6	10	13	13	22	50	1440	1560	100	50
WTS-STBF-0180-01	1.8	12	15	15	24	60	1490	1615	100	50
WTS-STBF-0200-01	2	14	18	18	28	70	1540	1640	100	50
WTS-STBF-0300-01	3	16	23	23	46	80	1830	1880	100	50
WTS-STBF-0400-01	4	20	26	26	52	100	1900	2020	100	50
WTS-STBF-0500-01	5	24	33	33	66	120	1970	2280	100	50
WTS-STBF-0600-01	6	32	40	40	80	160	2070	2330	100	50

\*LPCD: Litres per capita per day \*KLD: Kilo litres per day



Dig the cavity of the required size and carefully place the tank in it



Now cover the entire area with soil and you can use the space for any other purposes thus leaving a Zero footprint



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# Sintex®

### **RANGE & SPECIFICATIONS**



Step 2

Fill the area surrounding the tank with Gravel