



**NIXIE**  
ENGINEERS PVT. LTD.

# COMPLETE WATER SOLUTIONS



MBTec<sup>TM</sup>





- MBTec, based on moving bed bio reactor technology consists of a tank with submerged but floating plastic (usually HDPE, polyethylene or polypropylene) media having specific gravity less than 1.0. The large surface area of the plastics provide abundant surface for bacterial growth.
- Each individual bio carrier increases productivity through providing protected surface area to support the growth of bacteria within its cells. It is this high-density population of bacteria that achieves high-rate biodegradation within the system, while also offering process reliability and ease of operation.
- This technology can be used for wastewater treatment for the following industries: food and beverage plants, steel mills, oil refineries, petrochemicals, chemical plants, paper mills and any industries requiring wastewater treatment
- MBTec has become the preferred biological treatment technology because it offers several advantages over the traditional Activated Sludge Process, the most popular technology
- Our models MBTec - 200, MBTec - 300, MTTec - 500, MBTec - 1000, are factory assembled units

#### Typical power consumption, treatment cost, footprint and sludge production

Model No	Capacity (Unit) KLD	Electricity Consumption per Day, kW	Treatment Cost* per Day, kW	Area Required for Plant, ft2	Sludge Produced per day, kg	Number of Users per Model		
						Residential	Office	Education
MBTec - 300	300	351.3	0.0078	1580	16.2	2000	3750	3750
MBTec - 500	500	612.3	0.0081	2000	27	3333	6250	6250
MBTec - 1000	1000	1076.9	0.0072	3800	54	6667	12500	12500
MBTec - 5000	5000	2475.1	0.0034	7500	270	33333	62500	62500

#### References :

- Badlapur Municipal Corporation  
100 KLD
- Royal Guard of Oman Sultanate  
375 KLD



MBTec Media

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