

INDION® New Generation Packaged Sewage Treatment Plant (NGPSTP)



INDION NGPSTP is a unique combination of lamella plate clarification and aeration that results in a ready-to-operate, pre-fabricated solution of outstanding performance and efficiency for sewage treatment.

Features

- All-in-one single tank packaged sewage treatment plant
- Modular design: 10 – 100 m³/d
- Compact and easy to operate
- High-quality effluent
- Three months of sludge storage capacity
- Minimal maintenance
- GRP construction tank – no corrosion

Advantages

- Minimal land usage
- Minimum power and chemical requirement
- Low operating cost

Process

Primary Settlement: Sewage enters the primary settlement tank. The tank incorporates lamella parallel plates which aid in reducing the suspended solids by 75% and the BOD by 25%. This zone is relatively maintenance-free and contains no moving mechanical or electrical devices.

Aerobic Treatment: The effluent then enters the aerator bio-zone which is a combined fixed film reactor and active aeration system mounted on a horizontal shaft. The aerator provides a solid surface area for micro-organisms to attach themselves; these then feed on the organic matter present in the effluent. Rotation of the drums aerates the liquid. The bio-zone is self-cleansing and does not require extraneous pumping or sludge return.

Final Settlement: The treated effluent then moves to the settlement area. This area contains a lamella parallel plate assembly for settling finer particles. The submersible pump removes sludge to the sludge storage compartment on a regular timed basis.

Applications

- Hotels & Restaurants
- Holiday Resorts
- Golf & Country Clubs
- Townships & Housing Complexes
- National Parks
- Industrial Estates
- Existing Plan Upgradation

Technical Specifications

Model	Flow Rate (litres/day)	Length (m)
NGPSTP 500	11, 500	5.25
NGPSTP 1000	23,000	5.50
NGPSTP 1500	34,500	6.70
NGPSTP 2000	46,000	7.75
NGPSTP 3000	57,500	9.20
NGPSTP 3500	74,750	10.00
NGPSTP 4000	92,000	11.00

2.4 m width and 3.3 m overall height for all units

- INDION NGPSTP is available as modular units in various sizes as per the sewage treatment requirements.
- INDION NGPSTP can be either installed above the ground or below up to 2.3 m without a concrete surround.
- Power input, colour, inlet and outlet configurations are according to client specifications. All units are road transportable.
- INDION NGPSTP models are also available for flow rates exceeding 92,000 l/d.
- Specialised sewage and effluent treatment processes such as Sequential Batch Reactor (SBR), Fluidised Media Reactor (FMR) and submerged Membrane Bio-Reactor (MBR) are also available for high flow rates.

Our state-of-the-art manufacturing facilities are ISO 9001, ISO 14001 & ISO 45001 certified.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional / branch offices for current product specifications.

INDION® is the registered trademark of Ion Exchange (India) Ltd.



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