Benefits and uniqueness

- The SetP will help reduce considerably indiscriminate disposal of untreated sludge and septage in the open as well as in the water bodies thus reducing pollution
- The low cost technology, operation and maintenance demonstrates a scalable and sustainable model for septage management in India
- Landscaping, plantation and solar parcelling makes the SetP environment friendly and appealing

The components are easily replicable and can be rapidly built and brought under operation
### Key Facilities
- Full-scale SetP of 75 KLD capacity to treat the septage generated in Bhubaneswar.
- Constructed by OWSSB under the AMRUT programme.
- First-of-its-kind SetP in India which treats both solid and liquid parts of septage in integrated way.
- SetP designed to treat liquid part of the septage using DEWATS Technology.
- Landscaping of plant area for aesthetics.
- Solar plant of 10 KW capacity installed at the SetP as a special feature.

### Facts
The SetP has been constructed under the "Maj Mission for Rejuvenation and Urban Transformation (AMRUT)" programme by the Odisha Water Supply and Sewerage Board (OWSSB) at a cost of INR 3.54 crore.

### Features
The SetP is designed to treat the liquid part of the septage using DEWATS technology. This is a gravity flow based system, where septage collected through cesspool emptier trucks is discharged to receiving chamber from where it flows to different units by gravity. The technology requires least mechanical and electrical interventions to run the process and is cost effective as compared to other technologies.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Receiving chamber with screen</td>
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</tr>
<tr>
<td>2. Settler-cum-thickener</td>
<td>Separates solid and liquid fraction from septage</td>
</tr>
<tr>
<td>3. Anaerobic Settler Anaerobic Baffle Reactor (ABBR) Anaerobic Filter</td>
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</tr>
<tr>
<td>4. Planted Gravel Filter (PGF)</td>
<td>Removes BOD and nutrients through aerobic process</td>
</tr>
<tr>
<td>5. Polishing Pond</td>
<td>Collects effluent from PGF for further reduction of BOD and bacteria. Water from the pond is utilized for landscaping and plantation inside SetP</td>
</tr>
<tr>
<td>6. Sludge Drying Bed</td>
<td>Used for dewatering and drying of sludge</td>
</tr>
<tr>
<td>7. Sludge Storage Yard</td>
<td>Collects and stores sludge from drying bed for composting/disposal</td>
</tr>
</tbody>
</table>

The SetP covers an area of 2.47 acres out of which 1.3 acres have been utilized for landscaping and plantation. This is a unique initiative that not only enhances the aesthetics of the plant but is also expected to garner support of citizens and raise awareness on importance of treating faecal sludge and septage. The treated water is used for watering the trees and lawns in the SetP campus.

In addition, a solar plant of 10 KW capacity has been installed and made operational, which is an on-grid system. The surplus power can generate revenue for the plant.
Benefits and uniqueness

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SEPTAGE TREATMENT PLANT
at Basuaghai, Bhubaneswar

Orissa Water Supply & Sewerage Board (OWSSB)
St Mother Teresa Rd, Satya Nagar, Bhubaneswar, Odisha 751007
The components are easily replicable and can be rapidly built and brought under operation
Facts
The SetP has been constructed under the “Asal Mission for Rejuvenation and Urban Transformation (AMRU)T” programme by the Odisha Water Supply and Sewerage Board (OWSSB) at a cost of INR 3.54 crore.

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In addition, a solar plant of 10 KW capacity has been installed and made operational, which is an on-grid system. The surplus power can generate revenue for the plant.
Key Facilities

- Full-scale SeTP of 75 KLD capacity to treat the septage generated in Bhubaneswar. Constructed by OWWA under the AMRUT programme.
- First-of-its-kind SeTP in India which treats both solid and liquid parts of septage in integrated way.
- SeTP designed to treat liquid part of the septage using CHATS technology.
- Landscaping of plant area for aesthetics.
- Solar plant of 10 KW capacity installed at the SeTP as a special feature.

Facts

The SeTP has been constructed under the “Real Mission for Rejuvenation and Urban Transformation (AMRUT)” programme by the Odisha Water Supply and Sewerage Board (OWSSB) at a cost of INR 2.54 crore.

Features

The SeTP is designed to treat the liquid part of the septage using CHATS technology. This is a gravity flow based system, where septage collected through cesspool emptier trucks is discharged to receiving chamber from where it flows to different units by gravity. The technology requires least mechanical and electrical interventions to run the process and is cost effective as compared to other technologies.

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7. Sludge Storage Yard | Collects and stores sludge from drying bed for composting/disposal

The SeTP covers an area of 2.47 acres out of which 1.3 acres have been utilised for landscaping and plantation. This is a unique initiative that not only enhances the aesthetics of the plant but is also expected to garner support of citizens and raise awareness on importance of treating faecal sludge and septage. The treated water is used for watering the trees and lawns in the SeTP campus.

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