

Nature-based Faecal Sludge Treatment Plants at scale in Maharashtra, India

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The **Swachh Bharat Mission** (2014-2019) achieved significant **success** to make India **Open Defecation Free**

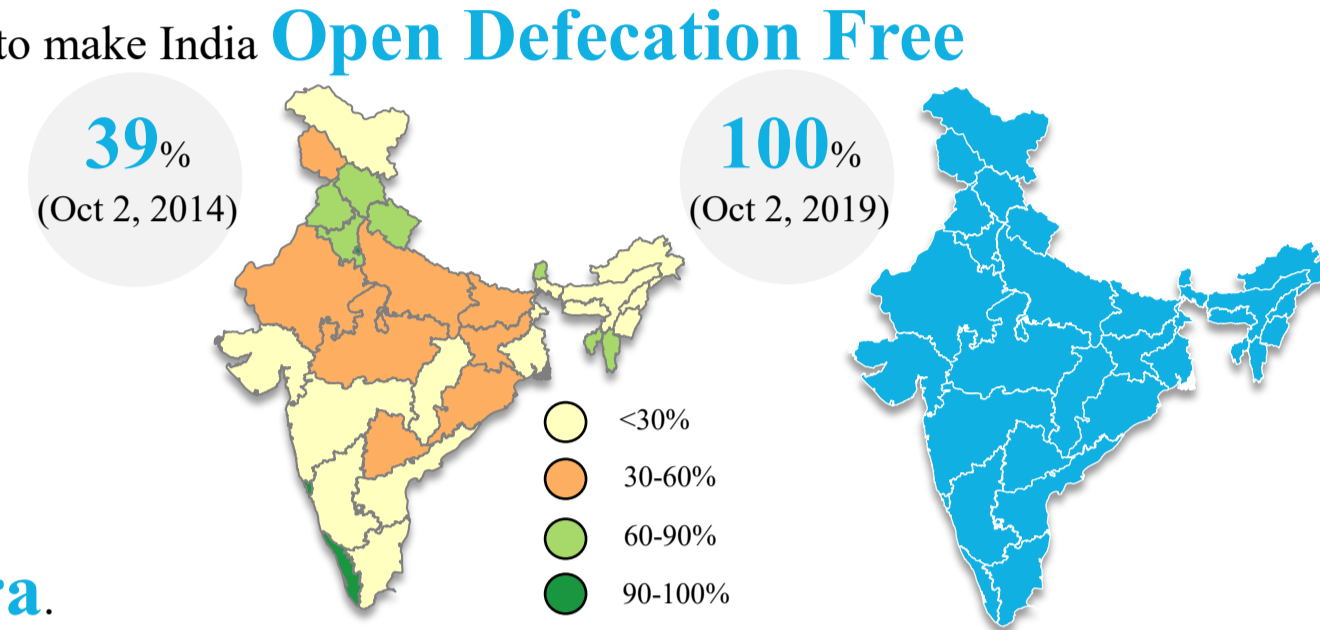
In the next stage, India is focusing on the entire sanitation value chain with

safe collection, treatment & reuse

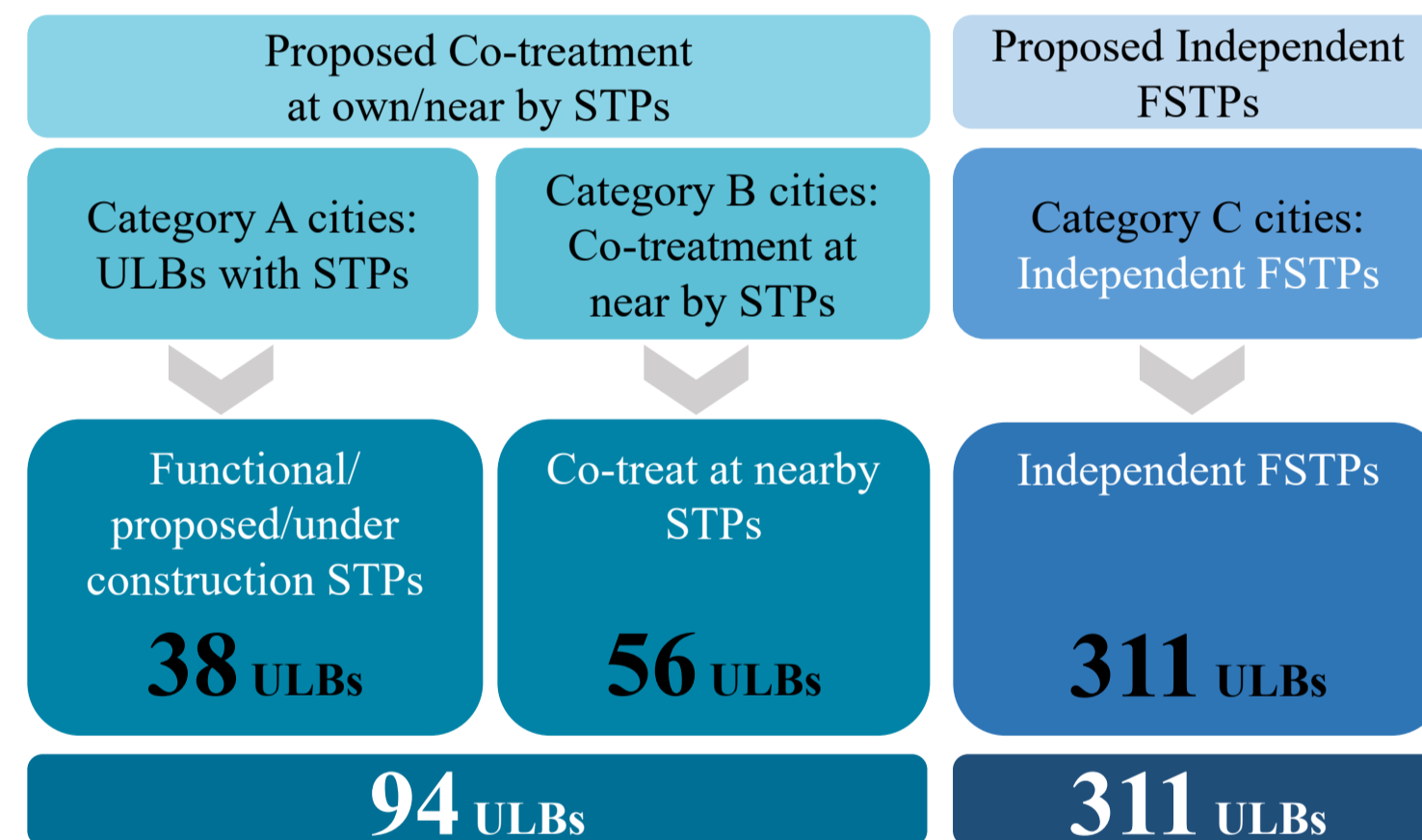
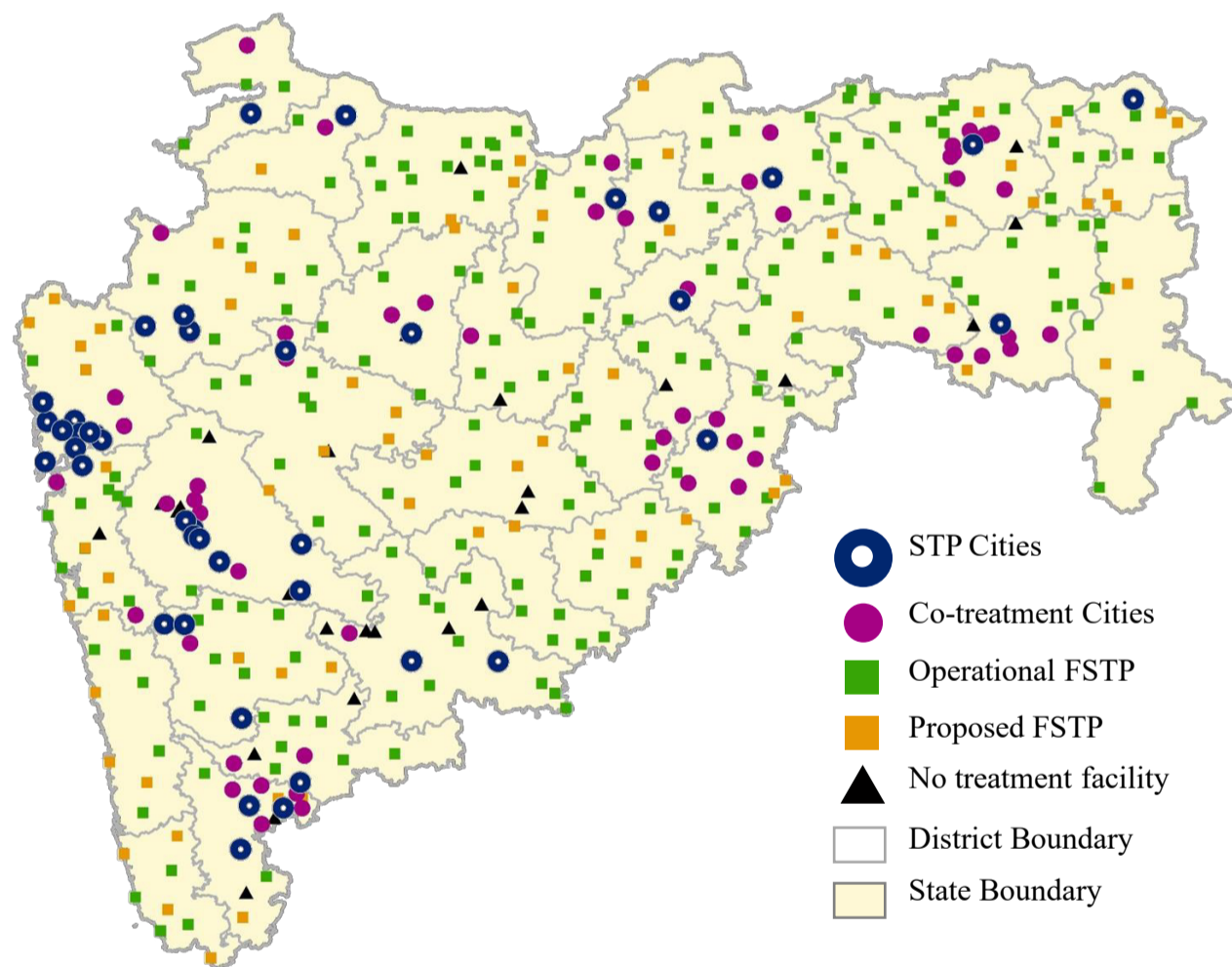
–AMRUT 2.0 and SBM 2.0

MoU signed between Center for Water and Sanitation & Government of Maharashtra for support on implementing

Citywide Inclusive Sanitation in Maharashtra.



A two-pronged approach taken up by Government of Maharashtra for the coverage of statewide faecal sludge and septage management efforts



Status of Faecal Sludge treatment plants across Maharashtra, India

311

Proposed

211

Operational

22

Under Construction

70

Bidding & Land Issue

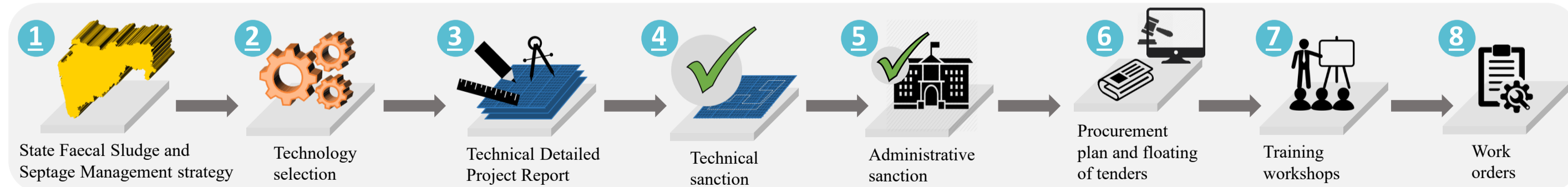
36 ML

Faecal Sludge co-treated at STPs

250 ML

Faecal Sludge treated at FSTPs

A single-window approval system to curtail the conventional complex and lengthy sanction processes



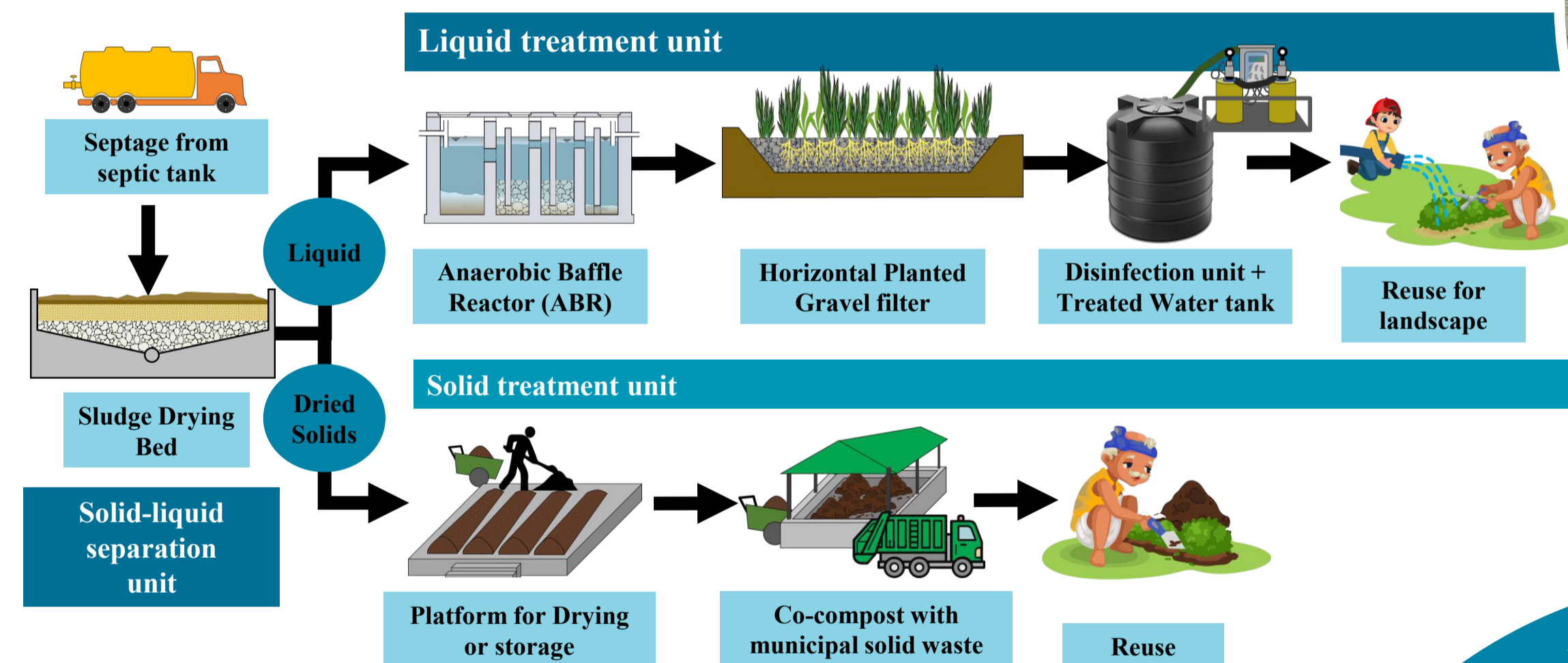
Why **Nature-based FSTPs?**

Less resource intensive unlike conventional treatment technologies

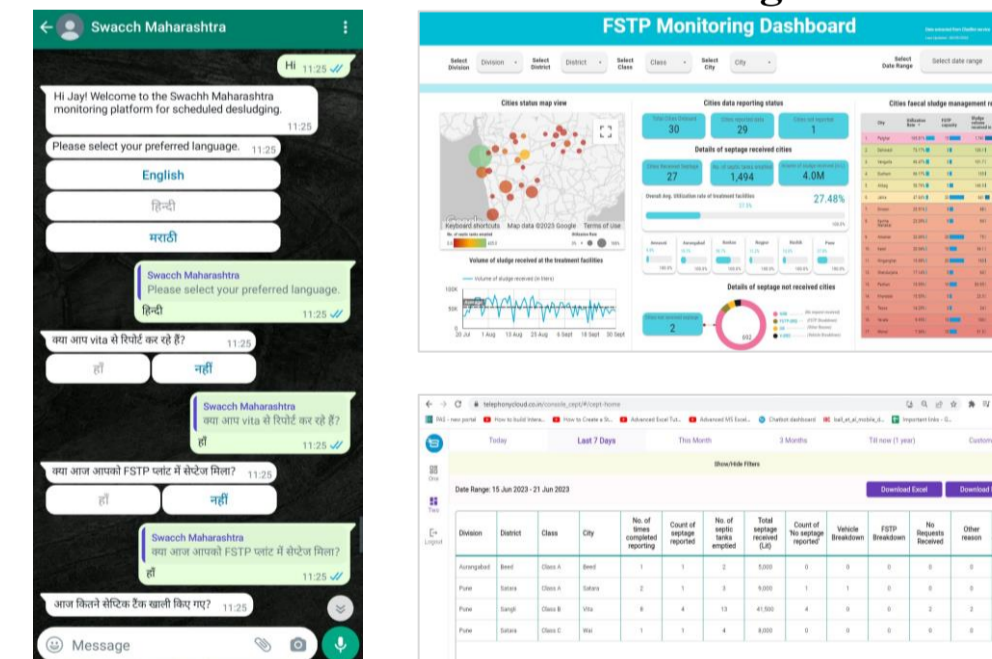
Low-cost technologies. \$1800- \$4200 per KLD. Less capital financial burden

Scaled-up in 200+ ULBs across Maharashtra within three years impacting almost 12 million lives

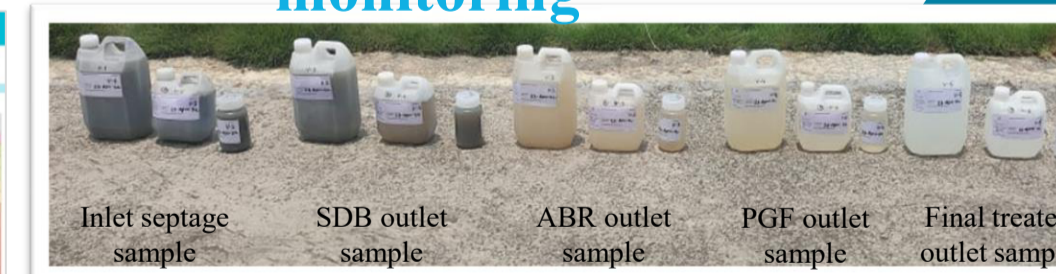
Process flow diagram of the typical FSTP technology adapted in Maharashtra



SaniChatbot (WhatsApp Chatbot) for FSTP data Monitoring



Treated wastewater quality monitoring



- Monitoring of treated water quality is conducted
- Reduction in BOD, COD, Faecal Coliforms and suspended solids
- The treated wastewater is reused in the FSTP premises and not disposed in the outer environment

Reuse of treated end products encouraged development of new green spaces and livelihood opportunities are provided to the local women groups for the operations of the treatment facility.

