

Factsheet of Kakarbhitta FSTP

The Faecal Sludge Treatment Plant (FSTP) located at Kakarbhitta of Mechinagar Municipality was constructed in 2020 A. D. The FSTP was constructed under third small town water supply and sanitation project with support from Asian Development Bank (ADB) and the Department of Water Supply and Sewerage Management (DWSSM). Currently, the Kakarbhitta Water Supply and Sanitation User's Committee (WSUC) is responsible for the operation and maintenance of plant. The Mechinagar Municipality is the service area of the FSTP.

This factsheet has been generated based on the survey conducted on 30 April 2024.



Design Capacity and Operational Status

Design Capacity:
12 m³ per day

Operational Status:
6.6 m³ per day

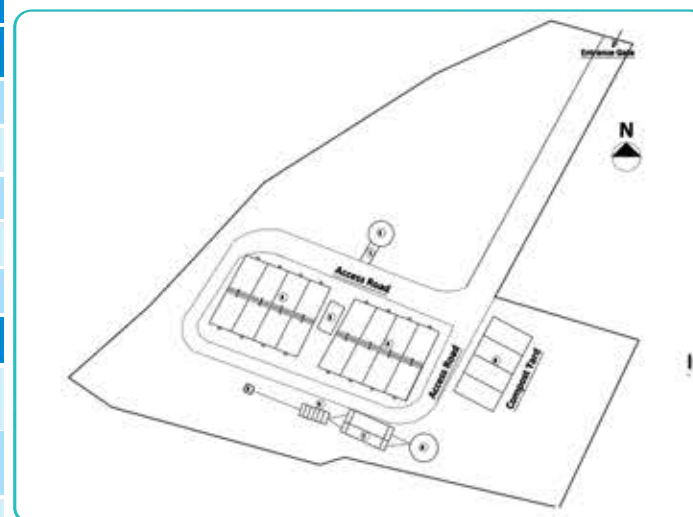


Operated by:
Kakarbhitta Water Supply
and
Sanitation User's
Committee

Components in Treatment Facility

The facility is constructed based on natural treatment process. It consists of following units:

Component	NOs.	Size
Sludge-Liquid Separation Unit		
Bar Screen ①	1	
Biogas Digester ②	1	88 m ³
Stabilization Tank ③	2	Each 12 m ³
Planted Sludge Drying Bed ④	16	Each 60 m ²
Collection tank with pumping ⑤	1	
Liquid Treatment Unit		
Settler with Anaerobic Baffle Reactor ⑥	1	
Horizontal flow Constructed wetland ⑦	2	
Polishing Pond ⑧	1	



Treatment Efficiency

Effluent Test Result (From Outlet)

Parameters	National Standard (Source: GoN)	Result
pH	6 to 9	8.5
BOD (mg/l)	50	40
COD (mg/l)	250	291
TSS (mg/l)	60	33

Sampling Date: 30 April, 2024



We acknowledge representatives from Kakarbhitta WSUC for your cordial support during this survey.

