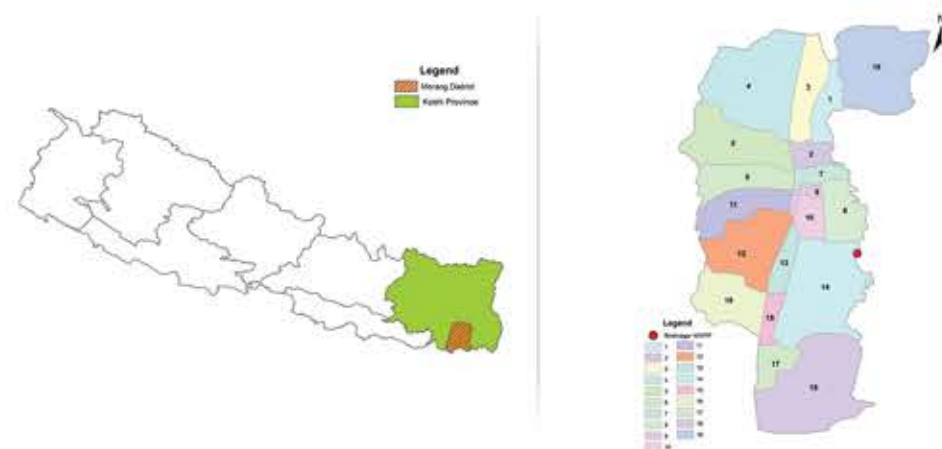


Factsheet of Wastewater Treatment Plant with Faecal Sludge Treatment at Biratnagar Metropolitan City

The Biratnagar Wastewater Treatment Plant (WWTP) located at Jatuwa in ward no.14 of the Biratnagar Metropolitan City. The WWTP was constructed under the Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) and Regional Urban Development Project (RUDP). It was constructed with financial support from Asian Development Bank (ADB), Department of Urban Development and Building Construction (DUDBC), Ministry of Physical Planning and Works (MoPPW), Town Development Fund (TDF) and Biratnagar Metropolitan City. It was handed over to the metropolitan city in May 2020 A.D. and since then, the metropolitan city oversees the operation and maintenance of the WWTP. Though the major purpose of the plant is wastewater treatment, faecal sludge is also being treated.

This factsheet has been generated based on the survey conducted on 29 April 2024.

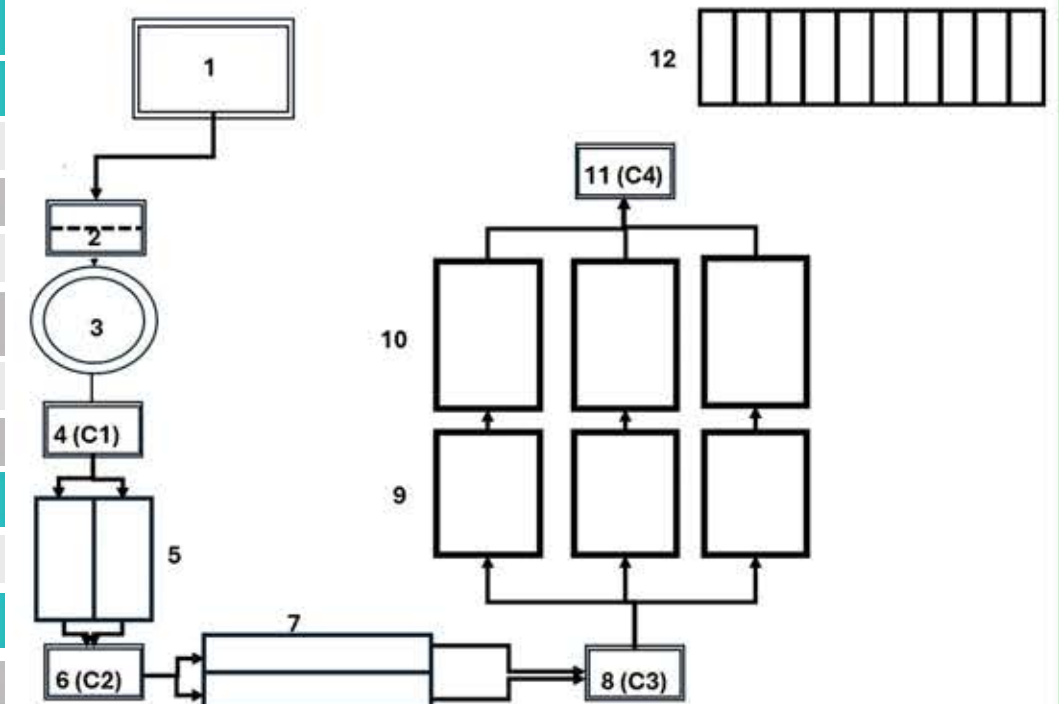


Components in Treatment Facility

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

Component	Nos.	Size
Pre-Treatment Unit		
Bypass Chamber ①	1	277 m ³
Bar Screen ②	2	1.2 m ³ and 1.5 m ³
Sump well with pumping set ③	2	Each 201 m ³
Collection Chamber ④⑥⑧⑪	4	13.5 m ³ , 7.5 m ³ , 18 m ³ and 19.5 m ³
Oil and Grease Chamber ⑤	2	Each 41.5 m ³
Grit Chamber ⑦	2	27 m ³ and 33 m ³
Sludge-Liquid Separation Unit		
Sludge Drying Bed ⑫	10	Each 67.5 m ³
Liquid Treatment Unit		
Anaerobic Pond ⑨	3	Each 13924 m ³
Facultative Pond ⑩	3	Each 26262 m ³

Source: S.limbu et.al., 2023



Design Capacity and Operational Status

Design
Capacity:
18.5 MLD

Operational
Status:
Partially
Functional

Operated by:
Biratnagar
Metropolitan City



We acknowledge representatives from Biratnagar Wastewater Treatment Plant and Biratnagar Metropolitan City for your cordial support during this survey.

