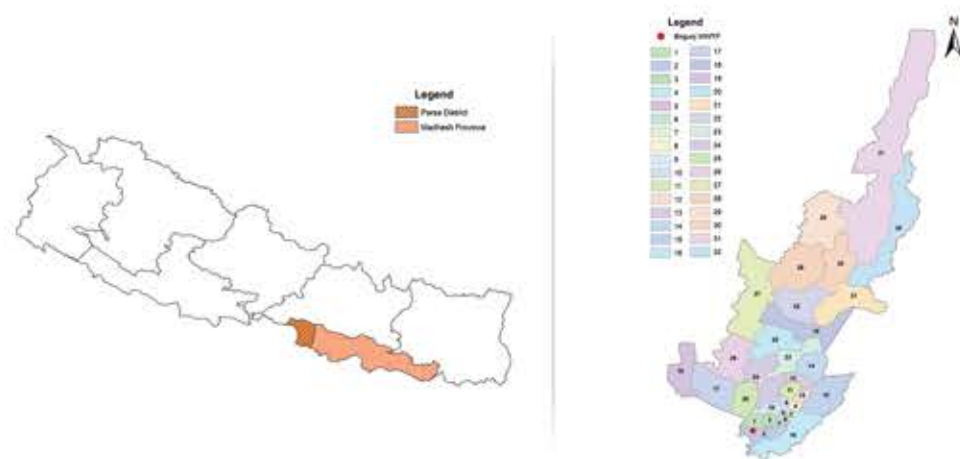


Factsheet of Wastewater Treatment Plant with Faecal Sludge Treatment at Birgunj Metropolitan City

The Birgunj Wastewater Treatment Plant (WWTP) is located at Chhapkiya, ward number 2 in Birgunj Sub-Metropolitan City. The WWTP was constructed in 2019 A.D. under the Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP). 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 Birgunj Metropolitan City. The metropolitan city oversees the operation and maintenance of the WWTP. During the time of study, the WWTP was partially treating faecal sludge only but does not treat wastewater though the plant was majorly designed for wastewater treatment.

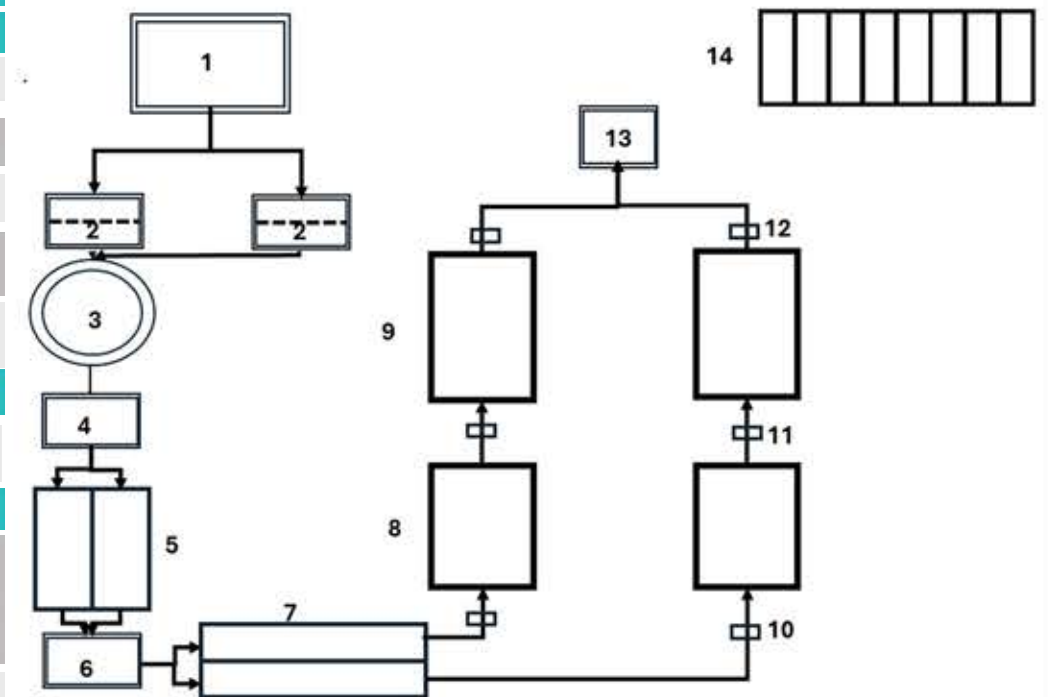
This factsheet has been generated based on the survey conducted on 1 May 2024.



Components in Treatment Facility

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

Component	Nos.	Size
Pre-Treatment Unit		
Inlet cum Diversion Chamber ①	1	3m X 3m X 1m
Bar Screen Chamber - 2 Channels ②	2	4m X 1.2m X 0.4m (LD)
Sump well with pumps ③	1	7.5 m diameter X 1.5 m (LD)
Grit Chamber with 2 Channels ⑤	2	9mX1.25mX0.75m (LD)+0.3m free board
Parshall Flume ⑥	1	5mX0.7mX0.7m (LD) +0.5m free board
Sludge-Liquid Separation Unit		
Sludge Drying Beds ⑭	8	20mX11mX0.3 (SD)+0.5m Free Board
Liquid Treatment Unit		
Facultative Pond ⑬	2	At Top: 62.5mX204mX2m (LD)+0.5 m Free Board At Bottom: 52.5m X 194m At Mid-water Depth- 56.5m X 198 m
Anaerobic Pond ⑧	2	At Top: 35mX59mX4.5m (LD) + 0.5m free board At Bottom: 15mX39m; At Mid water depth-24mX 48m+0.5 m free board



Design Capacity and Operational Status

Design Capacity:
9.98 MLD

Operational Status:
Non-Functional for Wastewater
Partially Functional for Faecal Sludge

Operated by:
Birgunj Sub-Metropolitan City



We acknowledge representatives from Birgunj Metropolitan City for your cordial support during this survey.

