Status of Faecal Sludge Management (FSM) in Shuklagandaki Municipality

Introduction

Shuklagandaki municipality is located in Tanahu District of Gandaki Zone in the Western Development Region of Nepal. This municipality has a high religious value. Dhorbarahi, one of the most famous goddess temples, is located here. There are 48,380 people with 9676 households according to the latest data obtained from the municipality at the time of survey.

FSM Status

Majority (9560) of the households (HHs) have a toilet within their premises. Out of the HHs having toilets, 4570 HHs have lined containments including biogas containers (4235 HHs), 4627 HHs have unlined containments and 363 HHs have no containment. Considering the volume of these containments, volume of faecal sludge (FS) generated in the municipality is estimated to be 153 cum per year. The generated FS are being self-emptied manually (0.8 cum/year).

There are neither private nor municipal desludging vehicles within the municipality. However, the households contact available nearby service providers from other municipalities, whose rates vary from Rs.10,000 -15,000 based on whether or not the ultimate disposal site of sludge is known. As only 0.5% of the containments are being emptied. there is no treatment plant or proper disposal site in the municipality. 50% of the emptied sludge is being applied into the farmland indicating unsafe use. Also, those containments which are not emptied, do not necessarily represent to be safe as majority of them are unlined, so could be threat to ground water pollution.



Map of Shuklagandaki Municipality

Recommendation

The data shows that Shuklagandaki municipality has no full sanitation coverage. In addition, the existing containments are not properly designed, which are collectively polluting the ambient environment and ground water. So, standard toilet and containment construction should be prioritized.

Furthermore, as the FS generated are being emptied mechanically getting the service from nearby municipalities paying high charges, facilities of mechanical desludging service providers and proper treatment facility should be emphasized in the Shuklagandaki municipality.

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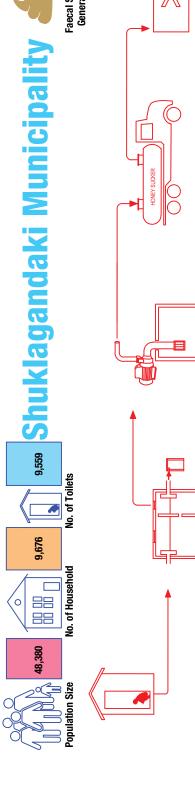


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Environment and Public Health Organization (ENPHO) Adarsha Marg, New Baneshwor, Kathmandu, Nepal Tel: 01-4468641 • Email: enpho@enpho.com

Web: www.enpho.org





cum/year

Jnsafe Disposal (FS

Faecal Sludge

Generation

75

153

CONTAINMENT

USER INTERFACE

COLLECTION AND STORAGE OF HUMAN EXCRETA INTO THE CONTAINER

> **HUMAN EXCRETA PREVENTING DIFFERENT KIND OF TOILETS**

EXPOSURE TO FAECAL THE COLLECTION OF

HYGIENIC SEPARATION OF

OF THE CONTAINER
WHILE THE EFFLUENT
FLOWS AWAY FROM THE SETTLED AT THE BOTTOM FAECAL SLUDGE IS CONTAINER

FAECAL MATTERS IS DONE UNDER USER INTERFACE VIA DIFFERENT KINDS OF TOILETS.

TRANSPORT

TRANSPORTATION OF THE FAECAL SLUDGE. VACUUM TRUCK ARE THE CONVEYANCE OF FAECAL MAIN MEANS FOR THE SLUDGE FROM THE CONTAINER TO THE TREATMENT PLANT

HYGIENIC REMOVAL OF

THE SLUDGE IS THE MAJOR CONCERN.

REMOVING OF FAECAL

EMPTYING

SLUDGE FROM THE CONTAINER.

IREATMENT

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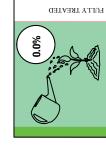
THE FAECAL SLUDGE TO THE SET STANDARD BY BY USING DIFFERENT KIND OF TREATMENT POLLUTANTS FROM REDUCTION OF **TECHNOLOGIES**

DRAINING OR REUSE

ENVIRONMENT FOR SLUDGE INTO THE

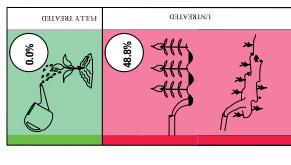
DISCHARGE OF FAECAL

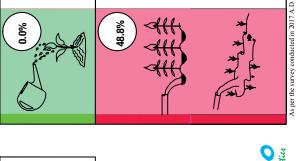
DISPOSAL/REUSE



TREATMENT PLANT

0.0%





VACUUM TRUCK 0.0%

MECHVAICVT EMLLAIA

6

LINED TANK

WATER SEALED PAN

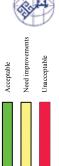
47.8%

88.5%









ODEN EWDLAING

NO CONTAINMENT

OPEN DEFICATION

LEGEND:

44.5%

WYNNYT EWLLLING

UNLINED TANK

ОКОЬ БУИ

0.5%

48.4%)

10.3%

