Status of Faecal Sludge Management (FSM) in Solu Dudhkunda Municipality

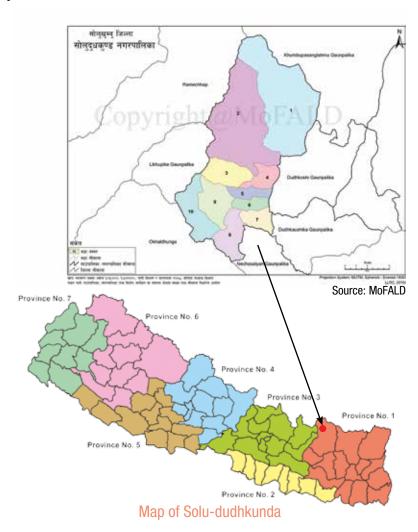
Introduction

Solu Dudhkunda municipality is located in Solukhumbu District of Sagarmatha Zone in the Eastern Development Region of Nepal. This is the first municipality of the district formed by merging Salleri, Garma, Loding, Tamakhani, Beni, Takshindu, Kerung, Gorakhani and Tapting.. There are 20,399 people with 4980 households according to the latest data obtained from the municipality at the time of survey.

FSM Status

Majority (4,965) of the households (HHs) have a toilet within their premises. Out of the HHs having toilets, 238 HHs have lined containments including biogas containers (99 HHs), 3,515 HHs have unlined containments and 1,211 HHs have no containment. Considering the volume of these containments, volume of faecal sludge (FS) generated in the municipality is estimated to be 244 cum per year. The generated FS are being self-emptied manually (0.7 cum/year).

There are neither private nor municipal desludging vehicles within the municipality. Also, there is no treatment plant and proper disposal site. However, emptying of containment has initiated and are being applied into the farmland indicating unsafe use. Regarding those containments which are not emptied, do not necessarily represent to be safe as majority of them are unlined, so could be a threat to ground water pollution.



Recommendation

The data shows that Solu-Dudhkunda Municipality has no full sanitation coverage. In addition, the majority of the existing containments are unlined with improper design and significant number of toilets are connected to open environment, which are collectively polluting the ambient environment and ground water. So, standard toilet and containment construction should be prioritized.

Furthermore, in this municipality, 24.4% of the HHs have individual off-site sanitation systems (no containment), which are being disposed haphazardly. This reflects the need of channelization of individual off-site systems and treating them prior to disposal.

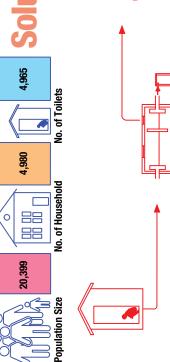
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cum/year

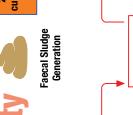
980



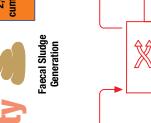




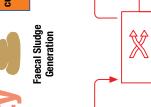




(FS







TREATMENT

DISCHARGE OF FAECAL

DISPOSAL/REUSE

BY USING DIFFERENT KIND OF TREATMENT POLLUTANTS FROM REDUCTION OF



TRANSPORTATION OF THE FAECAL SLUDGE.

VACUUM TRUCK ARE THE

HYGIENIC REMOVAL OF

THE SLUDGE IS THE MAJOR CONCERN.

OF THE CONTAINER
WHILE THE EFFLUENT
FLOWS AWAY FROM THE SETTLED AT THE BOTTOM

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

CONTAINER

MAIN MEANS FOR THE

CONVEYANCE OF FAECAL

REMOVING OF FAECAL

COLLECTION AND STORAGE

HYGIENIC SEPARATION OF HUMAN EXCRETA PREVENTING

EXPOSURE TO FAECAL THE COLLECTION OF

CONTAINMENT

USER INTERFACE

OF HUMAN EXCRETA INTO

FAECAL SLUDGE IS

THE CONTAINER

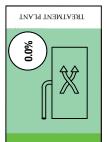
EMPTYING

SLUDGE FROM THE CONTAINER.

TRANSPORT

SLUDGE FROM THE CONTAINER TO THE TREATMENT PLANT

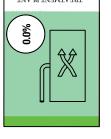
DRAINING OR REUSE **ENVIRONMENT FOR** SLUDGE INTO THE





FULLY TREATED

27.3%



VACUUM TRUCK

MECHVAICVT EMLLAIA

6

LINED TANK

WATER SEALED PAN

4.8%

90.5%

0.0%



UNTREATED





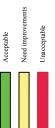


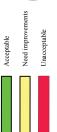
Crating Eco Societies

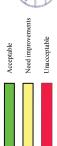
As per the survey conducted in 2017 A.D











ODEN EWDLAING

NO CONTAINMENT

OPEN DEFICATION

LEGEND:

7.6%

WYNNYT EWLLLING

UNLINED TANK

DROP PAN

0.3%

70.8%

9.5%

