


Environment & Public Health Organization


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A Guided Field Visit to the Faecal Sludge Treatment Plant at Lubhu

ENPHO recently facilitated a guided field visit for personnel from Haiphong Sewerage and Drainage Company; Socialist Republic of Vietnam, team members of the Third Small Towns Water Supply and Sanitation Sector Project (TSTWSSSP), and Department of Water Supply and Sewerage (DWSS) to the Faecal Sludge Treatment Plant at Lubhu, Mahalaxmi Municipality, Lalitpur on 16 August, 2016. TSTWSSSP and DWSS are currently piloting FSM systems in four small towns in Nepal. As part of the cross learning visit, the experiential knowledge was exchanged between ENPHO and the visiting team



The Faecal Sludge Treatment Plant at Lubhu is a pilot implementation by Mahalaxmi Municipality with support from ENPHO, BORDA, Saligram Bal Griha and CDD Society. The treatment plant is the first of its kind in Nepal with regard to the concept of reusability of all possible end products and integrated approach towards faecal sludge treatment. The treatment process provides resource recovery options; treated wastewater for reuse in irrigation, bio-solids as soil conditioner for farming, biogas for cooking and lighting, which benefits the treatment plant caretaker. Ultimately, the agriculture products from the treatment plant's caretaker is primarily utilized for consumption by the kids residing in Saligram Bal Griha and excessive produce is sold in the local market. However, the immediate beneficiaries of the plant were the people using the latrines constructed during the emergency earthquake response phase at Mahalaxmi Municipality.

The faecal sludge treatment plant is a gravity based system and is capable of processing 6 m³ of sewage per week. The plant utilized a combination of prefabricated modules and civil constructed units to achieve cost efficiency



([http://enpho.org/ournews/a-guided-field-visit-to-the-faecal-sludge-](http://enpho.org/ournews/a-guided-field-visit-to-the-faecal-sludge-treatment-plant-at-lubhu/fstp2/)

[treatment-plant-at-lubhu/fstp2/](http://enpho.org/ournews/a-guided-field-visit-to-the-faecal-sludge-treatment-plant-at-lubhu/fstp2/)) during construction. Furthermore, the operations and maintenance requirements are relatively low and are achieved via treating sewage in the absence of electromechanical equipment. Furthermore, the plant is highly efficient and can be operated without any skilled labor on a day-to-day basis. The maximum reusability of the end products after treatment ultimately contributes to “closing the sanitation loop” concept .

During the visit Dr. Mingma Galyzen Sherpa, Member Secretary, Executive Board of ENPHO, delivered briefs on ENPHO's expertise and background, and respective project highlights. Similarly, Ms. Reetu Rajbhandari, Sanitation Engineer at ENPHO provided further descriptions and operational details of the plant. In conclusion to the visit, Er. Diwakar Dhakal, Project Deputy Director of Water Operations Partnership Program, thanked ENPHO for facilitating the visit to treatment plant and further commended ENPHO's efforts in the WASH sector. Over 15 individuals, including ENPHO personnel, were part of the visit.

Latest News (http://enpho.org?page_id=1396)

MHM Learning and Sharing Program cum Launching of Sanitary Napkin Vending Machine
(<http://enpho.org/ournews/mhm-learning-and-sharing-program-cum-launching-of-sanitary-napkin-vending-machine/>)

Posted on June 4, 2018

To mark the Menstrual Hygiene Day 2018, Sulabh School Sanitation Club, India conducted menstrual hygiene management sessions to the school students of Shree Vidarthi Niketan Secondary School, Bhaktapur ...

- *Read More* (<http://enpho.org/ournews/mhm-learning-and-sharing-program-cum-launching-of-sanitary-napkin-vending-machine/>)

ENPHO celebrated World Menstrual Hygiene Day 2018 (<http://enpho.org/ournews/enpho-celebrated-world-menstrual-hygiene-day-2018/>)

Posted on May 31, 2018

World Menstrual Hygiene Day is celebrated annually on 28 May to raise awareness on importance of Menstrual Hygiene Management (MHM).

- *Read More* (<http://enpho.org/ournews/enpho-celebrated-world-menstrual-hygiene-day-2018/>)

WASH Forum on “Knowledge on Menstrual Hygiene Management and Health Impacts”
 (<http://enpho.org/ournews/wash-forum-on-knowledge-on-menstrual-hygiene-management-and-health-impacts/>)

Posted on May 31, 2018

Paschim Paaila, in collaboration with ENPHO and National Institute of Health and Environment (NIHE), organized 59th Series of WASH Forum on “Knowledge on ...

- *Read More* (<http://enpho.org/ournews/wash-forum-on-knowledge-on-menstrual-hygiene-management-and-health-impacts/>)

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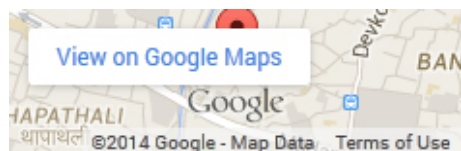
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