

FAECAL SLUDGE MANAGEMENT: JAMALPUR

Water, Sanitation and Hygiene Programme

In 2016, BRAC's Urban WASH project piloted a faecal sludge management plant in Jamalpur Municipality to support the local government to strengthen its waste management capacity. BRAC WASH renovated the municipality owned faecal sludge treatment plant, and built a customized vacutug for mechanical emptying of septic tanks and pits. The project employed pit-emptiers and trained them on operation and safety of mechanical pit emptying. Simultaneously, door-to-door solid waste entrepreneurs were developed to collect household waste and transport it to the treatment plant.



Safely managed sanitation is not secured by just containment of human faeces, without appropriate transport and treatment.

Activities in Jamalpur's Sanitation Value Chain

ACCESS TO TOILET

BRAC's Urban WASH project provides sanitation loans so households can install new or upgrade existing latrines. On site twin-pit latrines are promoted as the ideal technology



TRANSPORT

The faecal sludge collected from household pits are safely transported to the FS treatment plant where it is undergoes multiple stages of treatment



REUSE

Faecal sludge and organic waste is co-composted, dried, weighed and packaged into organic fertiliser-The fertilizer is sold to farmers



EMPTYING

Pit emptiers are trained on safe emptying of pits or septic tanks using the mechanical vacutug
Households receive this service in exchange of a fee



TREATMENT

The faecal sludge is disposed and stored at the mixing chamber, followed by transfer to the drying chamber to remove moisture. Next, it is co-composted with organic household waste



Our Approach

Partnership with Jamalpur municipality

We renovated a municipality owned FSM plant and connected with its waste collectors. We built a country made vacutug for mechanical emptying of pits.

Creating a network of service providers for waste management

We recruited a group of pit emptiers and provided training on safe transport and management of waste using mechanical techniques. We increased the capacity of municipality waste collectors by motivating unemployed groups and loan services.

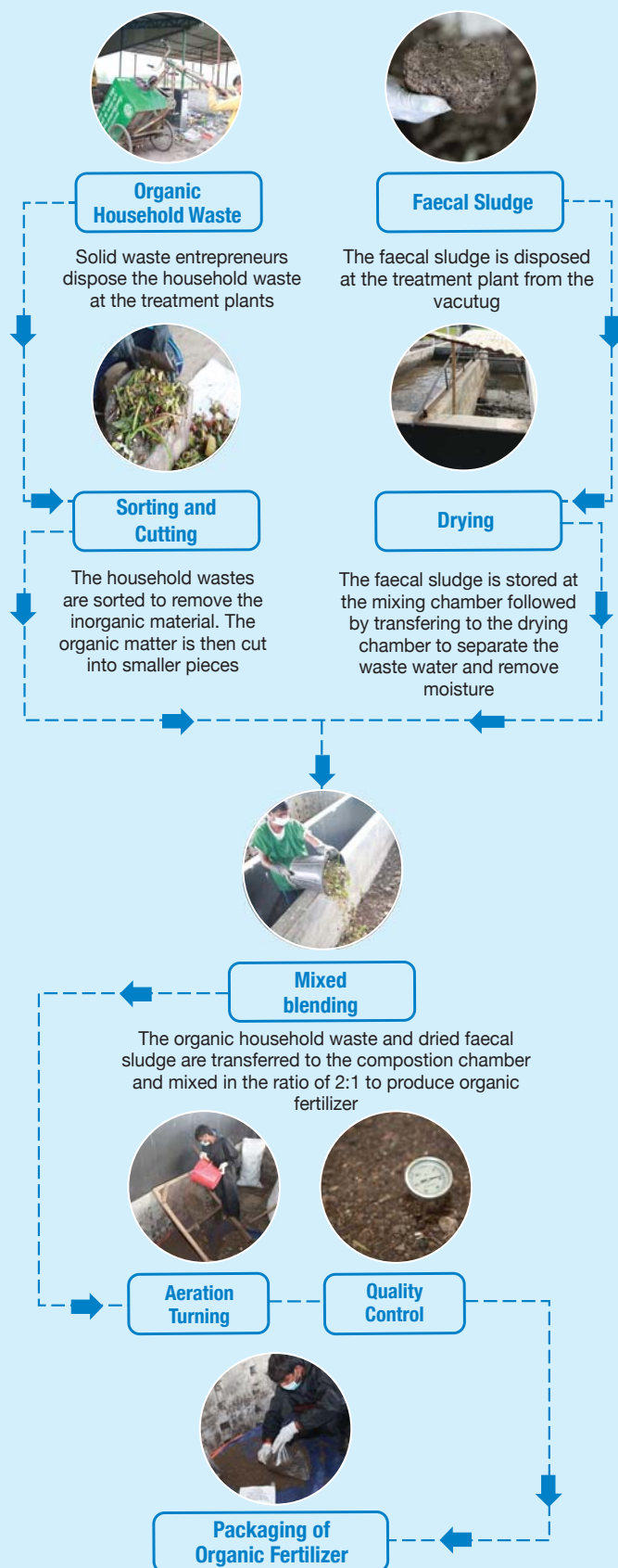
Inducing local demand for waste management

We created networks by connecting waste collectors to neighborhoods not covered by the municipality waste management services. Advocacy for faecal sludge management with local government and communities is being conducted to build demand. Awareness was built through promotional materials and community mobilization.

Achievements of waste management

- Renovated to increase treatment capacity to **40,000** litres of sludge per month
- **8,404** Kg of organic fertilizer produced
- **605,256** litres of sludge collected
- **892,500** Kg of solid waste collected

CO-COMPOSTING PROCESS TO PRODUCE ORGANIC FERTILIZER



Partner:

BILL & MELINDA
GATES foundation