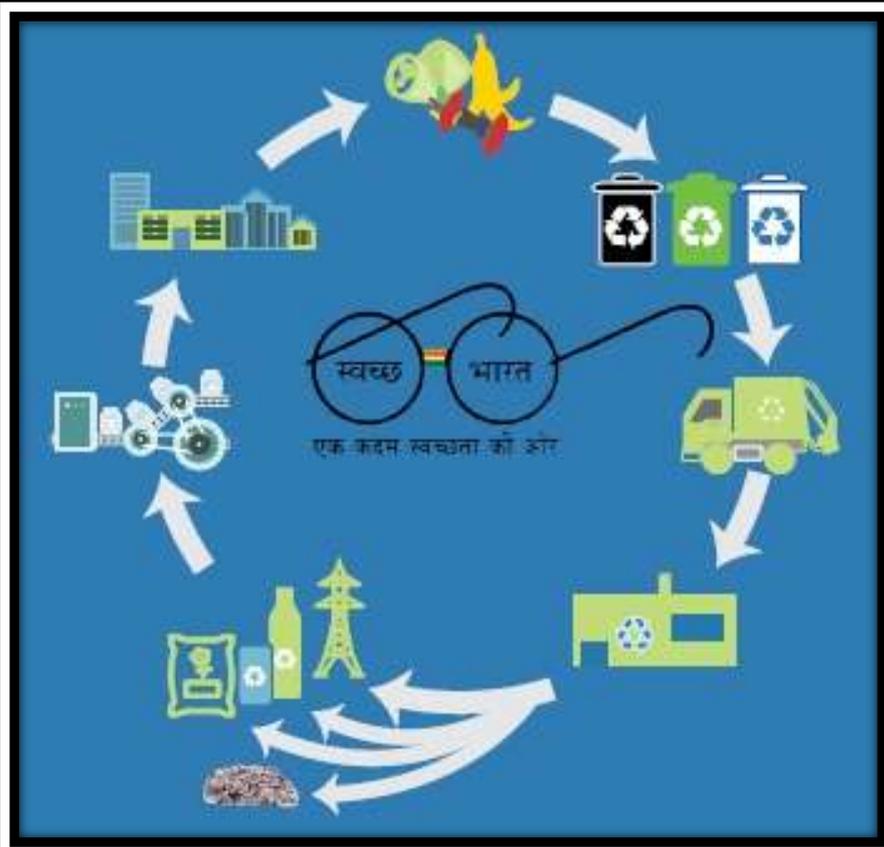


2017

# INNOVATION



# **Berhampur Municipal Corporation**

## **Innovation on FSSM (Faecal Sludge and Septage Management) value chain.**

### **Background**

With the Government of India's Swachh Bharat Mission and AMRUT scheme gaining momentum and placing sanitation at the forefront of the nation's development agenda. Creating awareness on the links between sanitation and public health, eradicating Open Defecation (OD), and strengthening value chain of faecal sludge and septage management have been high on the agenda now. In this context Berhampur Municipal Corporation started implementing FSM in a successful manner.

Berhampur city comprises of around four lakhs population according to census 2011. The main challenges of implementation of FSSM is awareness on the value chain of FSSM, open defecation and solid waste management and their effect on environment and health was one of the essential aspects. In this context with the introduction of Faecal sludge and Septage management of Berhampur Municipal Corporation has played a crucial role and lot of impact on sanitation level of the city. However to bring about quick improvements in sanitation levels and to stop dangerous practices such as dumping of faecal waste in open grounds and water bodies, it is important that cities should adopt a set of safe practices in faecal waste and Septage management. Currently total number of four vehicles are under operation out of which three vehicles are been given to private operator through tendering process with a nominal rate approved by government of Odisha Housing and Urban development department. However problems continues even after the operation of cesspool vehicle because of lack of awareness on de-sludging at the designated place identified by the municipal corporation. As several cases found on illegal desludging at the outside of the city. As the entry point of the city usually gives overall impression of city cleanliness but due to regular illegal desludging at the entry point the city was widely gave a bad impression due to bad odour. In order to address such issues of illegal dumping Berhampur Municipal Corporation intervened strategically to handle such issues.

## Strategy for monitoring cesspool vehicle operation.

Looking into the problem of monitoring aspects of cesspool operation on illegal desludging and for better service on emptying septic tanks, Berhampur Municipal Corporation introduced Toll free number with IVR at the office through which demand could be generated and through vehicle tracking mechanism vehicle could be tracked simultaneously.

### Vehicle Tracking System

Introduction of Vehicle monitoring mechanism started with installation of GPS technology in all the all the four vehicles of Berhampur Municipal corporation. The objective was to track the vehicles on daily basis on movements of all the vehicles. Further to this the vehicles operator got orientation on operation of GPS tracking and its larger objective such as desludging at designated place. Based on intervention

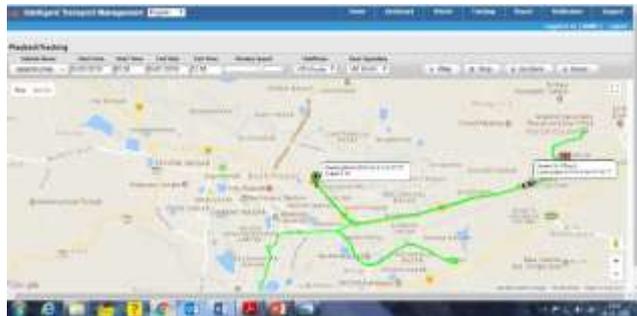


Figure 1 VTS

now all the four vehicles are being monitored through vehicle tracking system. As the FSTP is under progress and will be under trial run by end of February 2018. However for the temporary arrangements and safe disposal practices BeMC established a deep row entrenchment at Chandnia hill (A solid waste management site) for de-slugging which is around 8 Kilometre distance from the city.

### Monitoring through CCTV Camera

As part of identifying the key gaps in the service delivery and identify strategic intervention under BeMC and private operator, four cesspool vehicle are under operation at the Berhampur City, are now regularly being monitored through vehicle tracking system but the problems on de-sludging at deep row entrenchment. In order to



Figure 2 CC TV monitoring

bring solutions for this four CC TV camera installed at Chandania hill( temporary site). The

objective of tracking is to regular monitoring of cesspool vehicle whether the de-slugging are being done on assigned deep row entrenchment area and simultaneously to prevent from illegal de-slugging. As the CCTV camera helps us tracking vehicles on no of services are being provided and trips made by each vehicle could be easily monitored through this



initiative.

*Figure 1 CCTV camera at Temporary disposal site*

Initially BeMC established two numbers of DRE on 2017, which is almost full now and very soon two new DRE will be established. However the DRE site are temporary site, mostly used for solid waste management which is very old and it is also difficult for the cesspool vehicle to desludge at the temporary disposal land. Hence approach road also created to ensure vehicle should able to reach to DRE without any problem and for smooth cesspool operation. As



*Figure 2 Approach road to DRE at Chandinia Hill*

cesspool operation and its monitoring it is essential

to ensure temporary disposal land with proper deep row entrenchment. Besides this it is also found that the cesspool operation also could not able to go for proper de-slugging during rainy season or when there are blocks in the approach road due to improper solid waste dumping.

