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Comprehensive Faecal Sludge And Septage Management Plan For Kochi Corporation Area

Majority of the world's urban population relies on various types of on-site sanitation system (OSS) for meeting the sanitation needs. This is especially the case in developing countries like India where centralised sewage systems are uncommon, yet the investments for sanitation does not meet the requirement on further treatment and disposal of the Faecal sludge and septage from the OSS. Kochi, a harbour city have additional challenges of very high ground water level, highly permeable soil and flood vulnerability.

Faecal sludge and septage management is an element of sanitation planning which connects the on-site sanitation system effectively to the sanitation service chain of the city and make sure it is disposed or reused safely. This project attempts to approach the challenge in a systematic manner, identifying the highly vulnerable hotspots of Faecal Sludge and Septage Hazards, identifying possible technologies of treatment plants, ideal locations for septage treatment plant based on spatial parameters, calculating required size and cost of STP.

The city with the unique challenges it is posing, does not have a completely suitable site for STP, but with enough measures to tackle odour and seasonal flooding, the site which can cater the STP of the Corporation can also possibly cater to the neighboring LSGs' septage management needs in the future.

Key words: Onsite Sanitation System (OSS), Faecal Sludge and Septage Management (FSSM)