RESEARCH ARTICLE | OCTOBER 20 2023

Study on co-composting of faecal sludge treatment plant sludge with municipal solid waste

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AIP Conf. Proc. 2912, 020002 (2023)

https://doi.org/10.1063/5.0170806

As a model of waste management, composting is the procedure whereby organic waste can be counted as microbiologically degraded beneath aerobic conditions to reap full-size extent reduction at the same time as additionally generating a solid, usable cease product. Co-composting refers to composting or extra waste sorts within the identical vessel or place, hence imparting space, and financial savings. This study is about mixing of Faecal Sludge Treatment Plant (FSTP) sludge with Municipal Solid Waste (MSW) to speed the process and increase the usefulness of the end-product [1]. The processing and supreme use or disposal of co-composting end products is regulated and controlled by State and Central Pollution Control Boards & Government of Tamil Nadu. There is an FSTP of 25 Kilo Liters per Day (KLD) capacity at Periyanaickenpalayam town panchayats of Coimbatore District with the Resource Recovery Park (RRP) of Urban Local Body (ULB) [11]. Treated faecal sludge is often rich in agro-nutrients like nitrogen and phosphorous but lacks in organic carbon. Further, the sludge can also contain viable helminths egg. To address these two-pronged challenges co-composting of treated faecal sludge mixing with organic wet waste, reaching at RRP can be considered as a suitable solution.

Topics

Pollution prevention, Cardiorespiratory fitness

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