

Name of the Principal Investigator & Co-investigator	Mr. Sameer S. Shastri; Mr. Aditya Marunmale
Title of the Research Project	“Study of Decentralised On-site Waste Management Systems for Multi Storeyed Building including Process Optimisation and Their Impact on Environmental and Carbon Foot Print”
Period of Research	2016 - 2018
Funding Agency	Savitribai Phule Pune University
Reference Number	OSD / BCUD / 220 dated 06/05/2016
Grant Received (Rs.)	1,70,000/-
Objectives of the project	<ul style="list-style-type: none"> • To study the proposed DOSIWAM (Decentralised Onsite Integrated Waste Management) system for treatment of domestic wastewater and study its applicability in urban areas. • To provide digesters and stabilization tanks to meet the requirement of sanitary water treatment within the building itself, at intermittent levels on high rise buildings. (Feasibility of Other Shapes like Circular Pipes need to be explored – (2 patents filed pertaining to the present study) • To study and hydraulically design the stabilization tanks and digesters. • To make use of this treated water for firefighting requirements of the adjacent floors, gardening, flushing, etc. and to reduce the dependency on fresh water for sanitary purposes.
Number of UG/PG Project Groups	01 PG in process
Publications out of this Research (if any)	Patent under process.
Photograph of Equipment Fabricated / Instruments purchased	
Any other information	Wastewater management is a crucial issue in urban areas. Due to revised FSI norms & changes in DP of cities, there is tremendous pressure on infrastructure particularly the sewerage system. It is possible to provide an environmental floor I each multistoreyed building (every 7 th floor or so) and treat the wastewater of upper 7 th floors or so on this floor. The treated wastewater can very well be used for floors below it. Further, additional water will be available for fire fighting. The techno economic feasibility will be studied in detail.