



WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS & SCIENCE - KAYALPATNAM

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)
Run by Wavoo SAR Educational Trust
(Minority Institution)

Degradable and Non-Degradable Waste Management

(a). Solid Waste (Bio compost)

Around our college campus, the falling leaves are collected from the trees and put into a tank. In this tank we put 200 liters of water, 2 kg of Sugarcane jaggery (Nattu Sarkkarai), $\frac{1}{2}$ kg of peanut flour and bio-enzymes and mixed well. After soaking this solution for a week, we mix it well twice a day. A week later, we take one liter of the mixed solution to 2 liters of water and sprinkle it on the collected leaves in the tank. 15 days later, these leaves decomposed and turn into an excellent leaf compost. In this method, the leaf litter is composted. In our college, we used this compost for gardening.

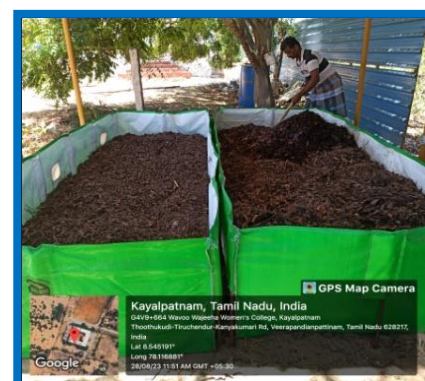
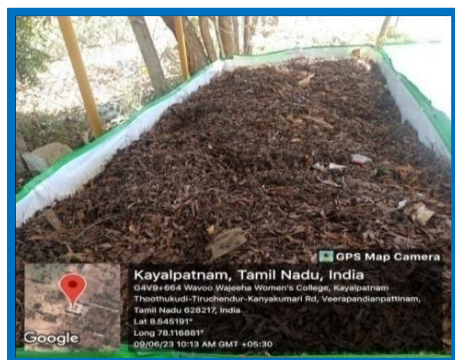


Fig: 1 & 2 Collected leaves+Mixture(water, Sugarcane jaggery, peanut flour and bio-enzymes)

Fig:3 Decomposed leaves



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(b). Food Waste (Bio Gas)

Bio gas is created by anaerobic digestion in which micro organism break down the organic matter in waste food in the absence of oxygen. In our college the food wastes are fed into a bio-digester for anaerobic co-digestion of food waste with cow dung in order to manufacture biogas. By effectively utilizing the residue, the bio gas yield per day provides methane gas for cooking purpose in our college canteen. This can be utilised for laboratory purpose in future.



BIO- GAS PLANT



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(c). Paper waste & E-waste

In our college, the waste papers are properly collected and disposed to commercial paper recycling bin. The E-waste from college are collected and given to the neighboring shops for proper recycling.



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2. Bill For Scrap Papers & Materials

Academic Year	Particular	Amount Received
2022 - 2023	waste paper and other items	65,310
2021 - 2022	waste paper and other items	10,920
2020- 2021	waste paper and other items	8,650
2019 - 2020	waste paper and other items	6,275
2018 -2019	waste paper and other items	56,856

PRINCIPAL
WAVOO WAJEEHA WOMEN'S COLLEGE
OF ARTS AND SCIENCE
Tiruchendur Road, Kayalpatnam - 628 204.
Thoothukudi Dist., Tamil Nadu.



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(d) Liquid Waste

Waste water collected from the entire campus is fed to aerated collection tank and then used to water the plants near the compound wall regularly through pipes. The water waste from Chemistry laboratory is nonhazardous as the chemicals in lab are dilute acids only.



Fig: 1&2 Waste water passing in Garden



Fig : 3&4. Hand washing water passing in Garden