



PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Paavai Engineering College has holistic approach towards waste management. The college has functional regulatory and policy guidelines for conserving the college environment. The college has established various facilities such as Bio gas plant, Sewage waste water treatment and so on to manage solid, liquid, bio-medical, E-waste and Waste recycling system. It is functioning partially by outsourcing agencies and partially by our Institution. The college has followed its own strategy to develop local solution to these waste products. No hazardous chemicals and radio-active elements are generated and used by the college.

The main intension of the college is to reduce the adverse effects of waste on human health, environment and resources of the environment. The college adheres to 3R's – Reduce, Recycle and Reuse policy for sustainable development of the eco-system.



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7.1.3 Waste Management facilities available in the institution

- **Solid waste management:**

Solid wastes management is an essential service of any society. solid waste management is a critical aspect of environment hygiene.

To treat the food waste, the biogas plant is installed in hostel of Paavai Engineering College to conserve the environment. The hostel and college has produced 680 kgs of waste daily. The biogas produced from this plant is 51 m³/day. This biogas is used in the kitchen of hostel, so as to reduce the level of usage LPG. The usage level of LPG is 34 kg/day.



Fig: Biogas Plant

- **Liquid waste management:**

In our College we have installed a sewage water treatment plant for the purpose of irrigation to garden, lawns, trees and agricultural lands. The waste products from colleges, mess, hostel, canteen are collected and treated for the purification process. The capacity of sewage water treatment tank is around 4,00,000 litres /day. The process adopted for this treatment is by Anaerobic Digestion Method. The following parts of this system are




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1. Collection tank:



2. Primary Settling tank:




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3. Sand filter, Activated carbon filter:



4. Treated water collection tank:



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5. Water used in landscaping and plantations:



Latitude: 11.399281
Longitude: 78.160927
Elevation: 201.85 m
Accuracy: 15.2 m
Time: 13-04-2021 11:37
Note: Liquid waste management

Powered by NoteCam



Latitude: 11.398898
Longitude: 78.162462
Elevation: 201.75 m
Accuracy: 83.9 m
Time: 13-04-2021 11:51
Note: Liquid waste management

Powered by NoteCam

Fig: Processed liquid waste used for gardening



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- **Biomedical waste management:**


The medical centre is provided in the college for serving students and faculty members. In that medical centre the biomedical waste such as cotton, syringes, discarded gloves, etc are collected and properly disposed along with non – biodegradable wastes.

The wastes like culture media, used cottons, glass plates, discarded blood, lancets etc are sterilized properly using the instruments-autoclave and hot air oven from Chemical Engineering laboratories.



Fig: Sterilizing medical kits in Chemical Engineering lab




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Fig: Sterilizing medical kits in Chemical Engineering lab

E waste management:

Electronic waste management has become a major issue nowadays. In an Educational institution, still it becomes a challenge to dispose. The college has a policy to dispose these e-wastes safely. E-Wastes are collected from each departments and it is consolidated and categorized by the computer centre of the college. The computer which can be upgraded can be done by the networking team and rests of the systems are given safely for disposal to outsourcing agencies. All the miscellaneous accessories such as batteries, PCBS, CDS from all departments and administrative office is collected safely and handed over to the external agency for disposal.

The college always follows the policy to sustain Green Campus.




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Fig: Collecting E-Waste from all the branches in the campus



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- **Waste recycling system**

From PEC campus, degradable solid waste is collected from boys hostel, girls hostel, Guest houses and dumped into the vermicompost yard to make compost organic bio fertilizer which are used for our own agricultural land maintained by our Agriculture Engineering department.




Fig: Disposal of solid waste in vermicompost yard



Fig: Usage of organic bio fertilizer in agricultural land




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- **Hazardous chemicals and radioactive waste management**

In chemistry and biochemistry laboratory, Strong and Hazardous chemicals are not utilized at any form and kind. The used diluted acids are disposed and drain in limited and controlled quantities for the protection of environment.

No radioactive elements are generated and not used in any of our college campus.



Fig: Biochemistry lab




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