



VELLALAR COLLEGE FOR WOMEN (Autonomous)

"COLLEGE WITH POTENTIAL FOR EXCELLENCE"

(Re-accredited with 'A' Grade by NAAC, Bengaluru & Affiliated to Bharathiar University, Coimbatore)

Thindal, Erode - 638 012. Tamil Nadu

e-mail : principalvcw@gmail.com ♦ website : vcw.ac.in ♦ ☎ 0424 - 2244101 M : 99767 - 51115



Dr. S.K. JAYANTHI, M.Sc., PGDCA., M.Phil., Ph.D.,

Principal

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

The Institution is conscious of proactive measures to be taken to reduce waste at the source and recycle it in an eco-friendly manner.

The HEI has the following degradable and non-degradable waste management system functioning effectively:

1. **Solid Waste Management**- Vermi Compost Unit converts disposable waste into fertilizer for gardens, adequate numbers of dustbins in all rooms and common areas, Food, vegetable and toilet waste from hostels used in the Bio-gas Plant to generate bio-gas to be used as fuel in the hostel kitchen, Metal, paper and glass waste are segregated and disposed through the authorized vendors for recycling, Sanitary napkins are disposed using the incinerators, Landfills are used for non-biodegradable waste, Biodegradable dry waste like fallen leaves is degraded using compost pits and Bits of fabrics resulted from garment making are used for cleaning the college vehicles.

2. **Liquid Waste Management**- Waste water from the College hostels is treated, recycled and reused for watering the plants in the gardens, Coloured waste water from the dyeing process of CDF Department undergoes colour removal with the use of chlorine or lime water, left over minimal quantity of acid base or salt from the laboratory outlet is filtered and neutralized through sedimentation process, Waste water from the canteens is drained off into concealed soak pits, Sprinklers in the gardens minimize water usage and Awareness programmes on conserving water resources are regularly organised on campus.



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3. **Hazardous Chemicals and Bio-Medical Waste Management**- Standard Operating Procedures are followed for disposal of hazardous chemicals collected from the Science laboratories, Water wasted from the distillation plants in the departments of Chemistry and Biochemistry is collected in cans and reused for cleaning purposes, Minimum amount of chemicals are used for experiments in all science departments and suitable measures are taken to dilute the chemicals before disposal, Concentrated acids and chemicals in liquid forms are minimally used and suitably diluted before disposal, Experiments which require hazardous chemicals are drastically reduced and diluted solutions are used in Micro Scale experiments for qualitative analysis, Amount of gas and vapor generated in the laboratories is minimal, Department of Chemistry has one well-equipped Fumehood for safe handling of harmful gaseous products and Signed an MoU with Ramky Energy and Environment Ltd., for disposal of bio-medical wastes.
4. **E-waste Management** - E-waste like non-functional computers, equipments and the other metal and wood waste are periodically collected by Olirum Erodu Foundation (OEF), a not-for-profit organization registered as a Public Charitable Trust for recycling, Computers with low configuration are sent to the needy departments or donated to the government schools and UPS batteries are recharged or exchanged with the authorized suppliers
5. **Waste Recycling System** - The Institution implements 5R's – Refuse, Reduce, Rethink, Reuse and Recycle in waste recycling system.



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PTV Expert Comments:

The waste water from the College hostels is treated, recycled and reused for watering the plants in the gardens. Similarly, the Bio-Gas Plant converts daily waste from the hostels into 70 kg. of gas to be used for cooking purpose.

Standard operating procedure is followed for the disposal of hazardous chemicals collected from the Laboratories of Science departments.

e-Waste like Non-functional computers, equipments and other metal and wood waste are periodically collected by a Non-Profit organization registered as a Public Charitable Trust for Recycling.

Justification:

The HEI has a deep concern to protect the environment, health and well-being and utmost priority to waste management in the campus by implementing effective waste management practices like segregation, recycling, reusing and composting.

The peer team comments authenticate that the above said facilities are available in the HEI.

Therefore, the HEI requests to consider improving the score.




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