



CHEBROLU ENGINEERING COLLEGE (HU): CHEBROLU

(Approved by AICTE, NEW DELHI & Affiliated to JNTUK, Kakinada, AP)

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CHEBROLU, GUNTUR (DT)-522212, ANDHRA PRADESH

7.1.3. Facilities in The Institution for The Management of Degradable & Non-Degradable Waste

1. Solid Waste Management:

Dust bins at Outside the class room:

Different approaches can be employed for the management of solid waste. Collection of the waste from outside of the class room. Adequate number of dustbins exclusively for this purpose are placed at different places. Use of dustbin to throw away all the waste at once by gathering the waste in separate bins for Dry and Wet collected from different rooms and places.



Wet and Dry Waste

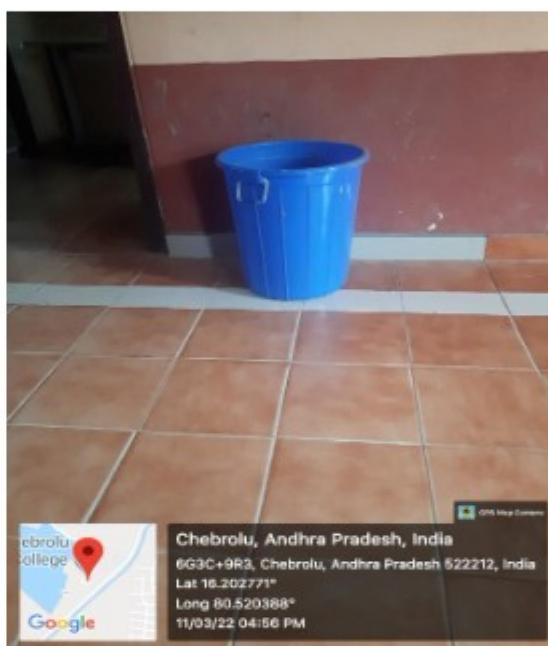

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Collection of Waste from different places in the Campus to keep hygienic and pollution free:

The Management of solid waste becomes further more necessary with increasing pollution and other hazardous consequences due to generation of waste. Comprehensive and efficient waste management plan can be built up so as to effectively manage the waste and explore the potential of resource recovery from the waste. Use the dustbin to collect the wrappers of different items and to throw unnecessary papers in it. Use the dustbin in the washroom to collect the used tissue papers.



Collection of Waste from the Ground



Collection of Waste from the corridor


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Incinerator:

Incinerator for burning the used napkins until it is reduced to ash in waiting hall for girl students. The bottom ash residue remaining after combustion has been shown to be a non-hazardous solid waste that can be safely put into landfills or recycled as construction aggregate.




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Dumping Yard:

Installing the dumping yard to keep the college Premises clean and green, Hazardous free which is caused by plastics. Solid waste today contains many materials such as plastics that are not readily degradable and toxic materials. In this process, solid wastes are dumped in a low-lying area and as a result of bacterial action, refuse decreases considerably in volume and are converted gradually into humus.




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Composting yard:

Installing the Composting yard to keep the college campus clean and green. Composting can be effective on most of yard waste such as leaves, flowering plant parts, vegetables and limited amount of woody pruning's, grass clippings. Composting not only keeps waste out of landfills but it yields a highly nutritious soil additive.




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Waste food:

Little of this waste is food for the decomposers. Thus, a variety of methods must be used to manage the waste. Potatoes, bread slices and vegetable peels are respectively the most wasted foods by quantity. Leftover food from the college canteen will be collected and given to Cattle field.




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2. Liquid Waste Management:

The Waste water coming from the A/C Laboratories are recycled for Plantation purpose. Because the water from the air conditioning unit is fresh, we can use it for multiple purposes including cleaning the outdoor windows or to clean patio furniture. Another form of using the AC unit water is through irrigation, by watering an outdoor garden and indoor plants.




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RO Plants with storage tanks:

The waste water from RO purifiers, which are becoming a staple in every institution, exceeds the amount of water that is actually purified by around three times. This institute certainly use the water to flush the toilets and give the bathroom fixtures and faucet its periodical clean up.




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3.E-Waste Management

Re-cycling of E-Waste can decrease the demand for mining of heavy metals and reduces the Greenhouse gases emissions from manufacturing Virgin material. E-waste is given to the authorized dealers, who purchase the scrap and reuse for the useful components.



E-Waste Storage


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E-Waste being used for Demonstration purposes:

The students during the lab sessions learn how to dismantle and reassemble the Spare parts of electronic devices, which help in application-oriented learning to protect the environment. They probably pay attention to what they are throwing away personally with little awareness of how much is being disposed of a much larger scale.




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4. Waste Recycling System in the campus:

Recycled water is used for toilet flushing and gardening. Treated water from campus sewage is feasible to be reused in landscape maintenance, non-crop irrigation, toilet flushing system which can compensate for the cost of sewage treatment. The regulations and standard procedure in implementing a proper sewage management should be implemented in institution for a better and sustainable campus environment

Water Pipelines for Recycling




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5. Hazardous Chemicals and Radioactive Waste Management:

The chemicals are stored in the laboratories separately and safely without causing any harm to the students. Hazardous waste requires special care when being stored, transported or discarded. The amount of hazardous waste generated has been undergoing dramatic changes.




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