



VEMU INSTITUTE OF TECHNOLOGY

P.Kothakota, Chittoor District -517112

CRITERION 7.1.3

The facilities in the Institution for the management of the following types of degradable and non-degradable waste

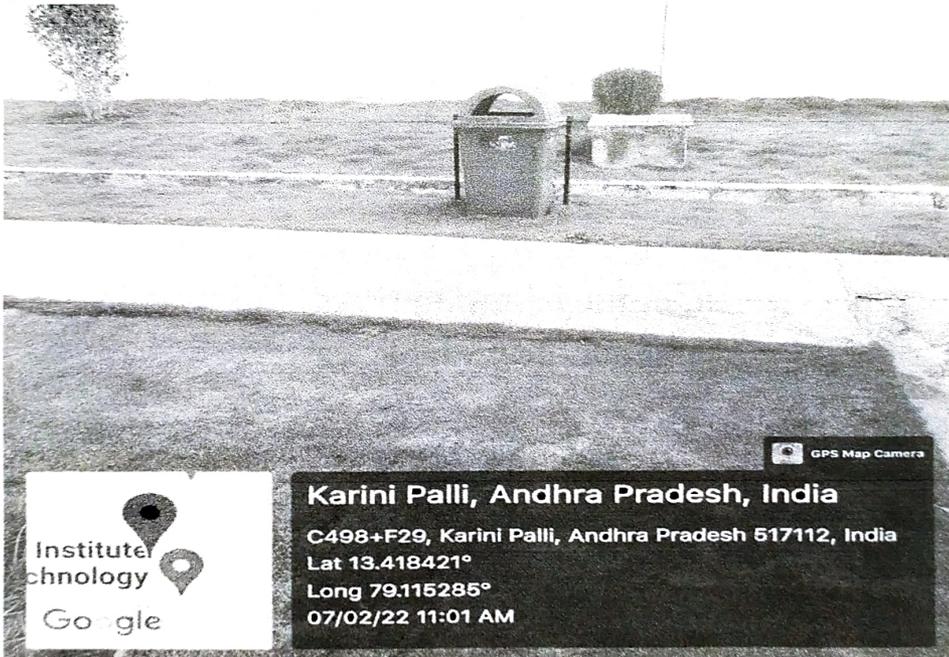
- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Solid Waste Management

Solid waste management:

- Institute practices the segregation of solid waste into dry waste and wet waste. The collected waste is segregated at the source of generation.
- Dustbins are placed separately for dry waste (Blue bins) and wet waste (Green bins) in the campus.
- The dry waste consists of paper, plastic, dry leaves etc are collected separately. Papers, Plastic and scrap are given to the external agencies for recycling.
- The dry leaves, twigs etc are collected and decomposed in a pit which is used as manure for trees and plants.
- **Sanitary Waste:** For proper disposal of sanitary waste units are installed in the women's washroom across the campus. all units every fortnightly and replace with new.

Wet Waste : There are green bins which are used to collect wet waste. Wet waste includes Vegetable and fruits and peels, food leftovers, meat, tea bags, coffee grinds, leaf plates. All the wet waste is composted in Composters (Composters are supplied by Daily Dump.)



- **Dry Waste:** There are blue bins which are used to collect dry waste. Dry waste includes plastic (pet bottles, pouch, cups, covers, wrappers), paper (cardboard, newspaper, notebooks, scrape paper, tetrapack), metal (foil container, cans, lids) and other dry waste (rubber, thermocol, ceramics, glass, wood)

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- **Garden waste:** Garden Waste (fallen leaves, twigs, puja flowers, garlands, weeds) is composted in Leaf Composters. The compost produced at the campus is used as manure for the huge landscape of trees and plants in Institute. The excess manure is also given to the staff and faculty for their home gardens.

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Liquid waste management:

- The institute practices segregation of waste water into water from wash rooms and water from laboratories.
- Liquid waste from the wash rooms is conveyed to the Municipal drain and waste water from laboratories is disposed off into closed collecting tank after neutralizing the chemicals etc.
- All the water discharged in the campus is sent to the sewage treatment plant and is treated for reuse.
- Treated water is used for watering the plants and trees in the campus. The silt generated from the STP is disposed off from time to time through authorized vendor.
- 100% of the treated water is used internally, except during the rainy days.

Waste Water Recycling

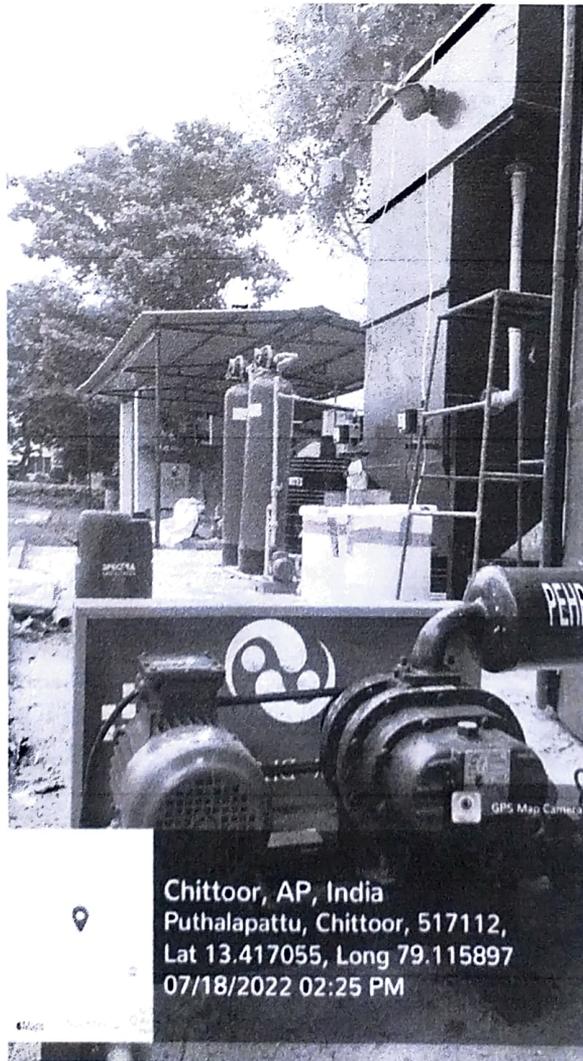
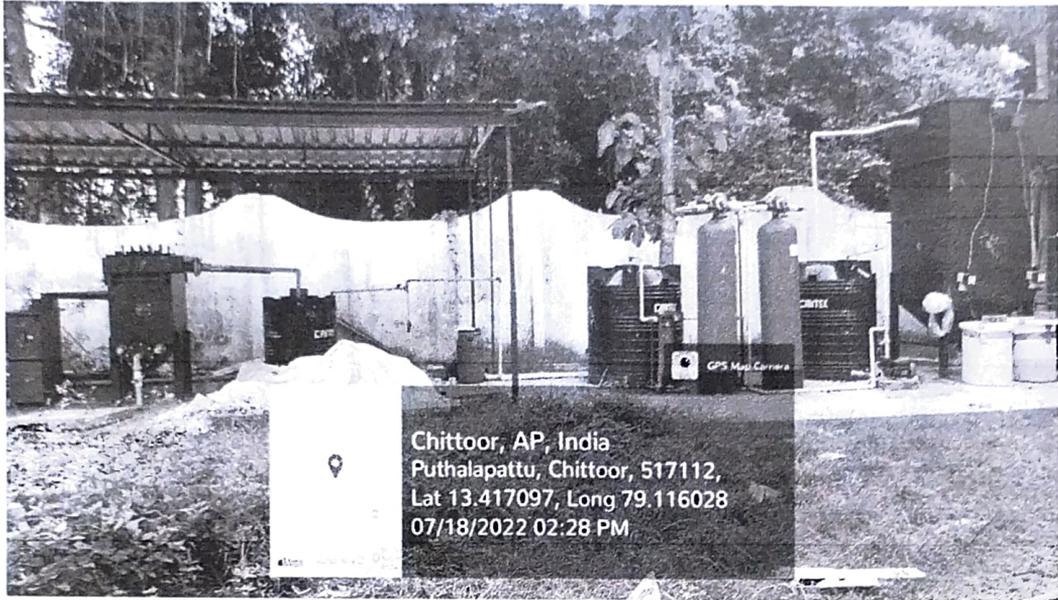
Sewage Treatment Plant (STP)

- VEMU Institute of Technology has a functional **Sewage Treatment Plant (STP)** of **25 KLD** treating capacity. In the plant, primary treatment is accomplished by “Electro Precipitation Mechanism”. Waste Water Recycling process facilitates the treatment of existing contaminants in the water and reduces the concentration of such contaminants so that the water becomes fit for the desired use.
- The treated water from sewage treatment plant is used for gardening, watering of trees etc.
- **Water treatability data of sewage treatment plant**

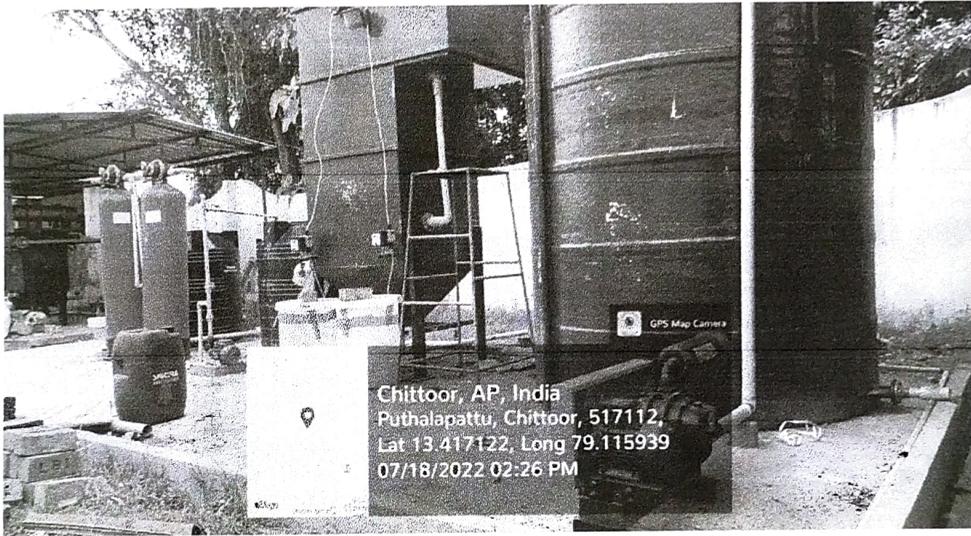
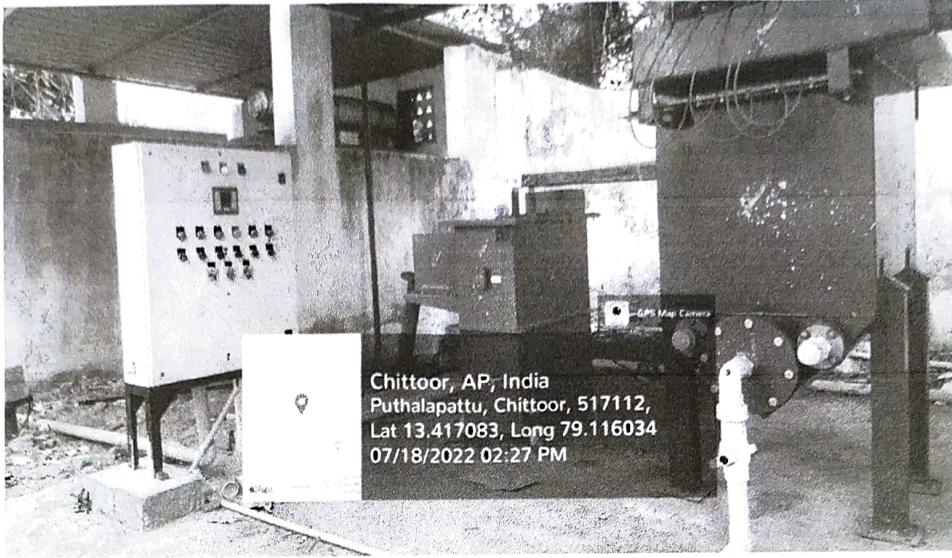
Parameter	Raw Effluent	TREATED WATER
Color	Objectionable	Colorless & Transparent
Odor	Objectionable	Odorless
PH	6.5 to 8.5	7
TDS(mg/l)	< 1000	< 1000
TSS (mg/l)	< 400	< 5
COD (mg/l)	< 800	<50
BOD (mg/l)	< 250	<20

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E-waste management

- The condemned batteries and damaged computers are disposed through outside agencies. Obsolete computers and other electronic gadgets are sold to recyclers.
- E-waste generated is given to the authorized dealers who purchase the scrap and reuse the useful components. Apart from this, the electronic and electrical instruments under repair are given to the students during the lab sessions to dismantle and reassemble, which help in application oriented learning. The low configured computers are donated to nearest schools

Various steps have been taken to restrict the generation of waste –

Bio degradable plates, steel plates are used instead of plastic plates; steel spoons replace the plastic spoons in canteen.

Usage of plastic bags is discouraged in the premises of the college. Awareness programs on waste management are conducted for staff and students to promote eco – friendly practices.

Hazardous chemicals and Radioactive waste management

- For hazardous chemicals, separate cupboards & racks are used with all guidelines for use of hazardous chemicals.
- Fire extinguishers and exhaust fans are placed at appropriate places.
- There is no radioactive waste generated in campus,

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