12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Waste management and plastic reduction at UPES

Bidholi and Kandoli campuses · segregation, recycling, e-waste and single-use plastics

SEGREGATION	E-WASTE	PLASTICS	RECORDS
Colour-coded bins for four waste streams	Licensed recyclers, stored up to 180 days	Single-use plastics phased out	Monthly waste records by stream

Overview

UPES runs a structured waste management system on both campuses, so that waste is segregated at source, stored safely, recycled or composted where possible and disposed of through authorised agencies. An action plan and an advisory on disposable items set out how the university is phasing out single-use plastics.

Segregation at source

- Colour-coded bins: green for biodegradable waste, blue for non-degradable waste such as paper, metal and glass, white for plastic waste and black for domestic hazardous waste such as batteries and expired medicines.
- Segregation at source is mandatory for everyone who generates waste, sanitary waste is wrapped before disposal, and construction and demolition waste is stored separately.
- There are designated areas for construction and demolition waste, e-waste and battery waste.

Storage, recycling and disposal

- Waste is stored in ventilated, clean areas with protective equipment, handwashing stations, drainage and CCTV monitoring.
- E-waste is stored for no more than 180 days and hazardous waste for no more than 90 days before it is handed to licensed vendors.
- Biodegradable waste is composted on site or processed through authorised vendors, and non-degradable and plastic waste is recycled through authorised recycling partners.

- Detailed records of waste quantities are kept for tracking and compliance.

Cutting single-use plastics

- Plastic straws, stirrers, cups, carry bags and polythene wrappers have been restricted in dining halls, cafes and vending outlets, with biodegradable or compostable alternatives in their place.
- Students and staff are encouraged to carry reusable bottles, mugs and containers, water refill stations are provided across campus, and glass bottles are used in meeting rooms.
- Purchasing favours vendors that use minimal or recyclable packaging, and departments are asked to avoid over-packaged or single-use plastic items.
- Awareness campaigns, workshops and student-led drives, with student representation on green committees, help change habits.

Waste records, Bidholi campus

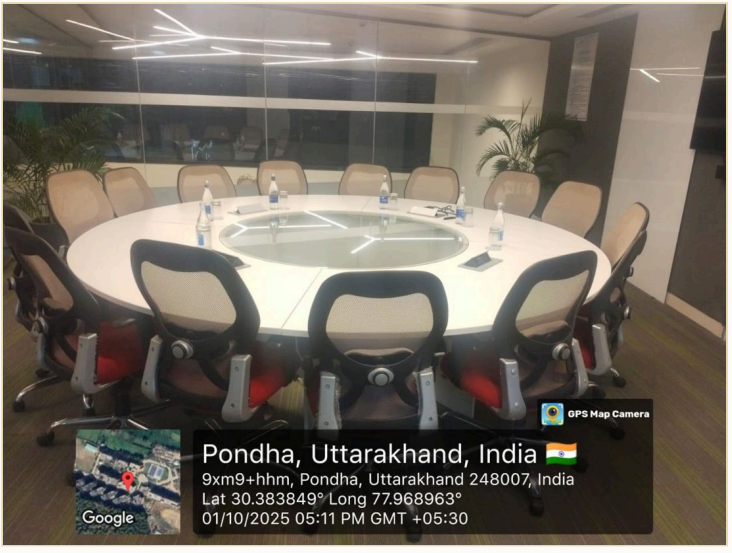
Monthly records of waste collected on the Bidholi campus, by stream (kg).

Year	Non-degradable	Biodegradable	Food waste	Total
April 2022 – March 2023	22,109	10,222	5,449	37,780
April 2023 – March 2024	32,499	15,878	6,954	55,331

Photographs



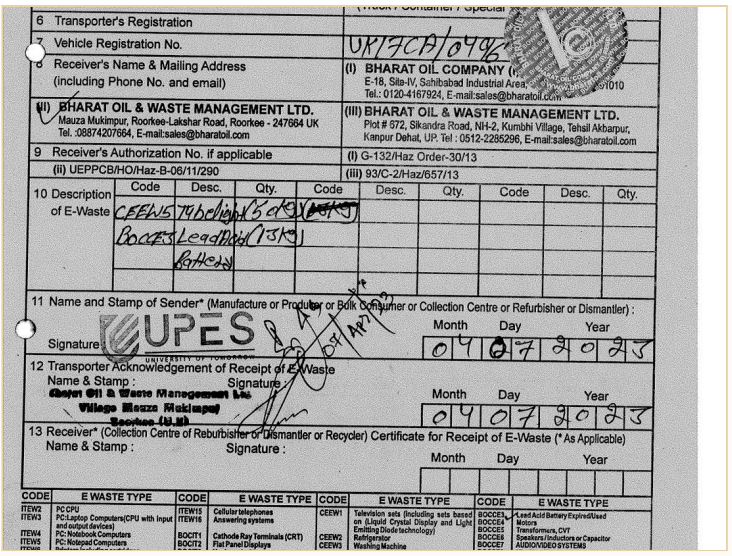
A Plastic Free Campus sign.



Glass bottles instead of plastic in a meeting room, Kandoli campus.



Reusable glass water bottles.



6 Transporter's Registration

7 Vehicle Registration No. UK17CA1049

8 Receiver's Name & Mailing Address (including Phone No. and email)

(I) BHARAT OIL COMPANY (
E-18, Site-IV, Sahibabad Industrial Area
Tel.: 0120-4167924, E-mail:sales@bharatoil.com

(II) BHARAT OIL & WASTE MANAGEMENT LTD.
Mauza Mukimpur, Roorkee-Lakshar Road, Roorkee - 247664 UK
Tel. :08874207664, E-mail:sales@bharatoil.com

(III) BHARAT OIL & WASTE MANAGEMENT LTD.
Plot # 572, Sikandra Road, NH-2, Kumbhi Village, Tehsil Akbarpur,
Kanpur Dehat, UP. Tel : 0512-2285296, E-mail:sales@bharatoil.com

9 Receiver's Authorization No. if applicable

(i) UEPPCB/HO/Haz-B-06/11/290

(I) G-132/Haz Order-30/13

(iii) 93/C-2/Haz/657/13

10 Description of E-Waste

Code	Desc.	Qty.	Code	Desc.	Qty.	Code	Desc.	Qty.
CEEW5	TV/Refrigerator/Washing Machine	5 Nos						
BOCCE5	Lead Acid Battery	73 Kg						

11 Name and Stamp of Sender* (Manufacture or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler) :

Signature :

Month 04 Day 07 Year 2023

12 Transporter Acknowledgement of Receipt of E-Waste

Name & Stamp : Bharat Oil & Waste Management Ltd. Village Mauza Mukimpur Roorkee (U.K.)

Signature :

Month 04 Day 07 Year 2023

13 Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) Certificate for Receipt of E-Waste (* As Applicable)

Name & Stamp :

Signature :

Month Day Year

CODE	E WASTE TYPE	CODE	E WASTE TYPE	CODE	E WASTE TYPE	CODE	E WASTE TYPE
ITEW2	PC:CPU	ITEW15	Cellular telephones	CEEW1	Television sets (including sets based on (Liquid Crystal Display and Light Emitting Diode technology)	BOCCE4	Lead Acid Battery Expired/Used
ITEW3	PC:Laptop Computers(CPU with input and output devices)	ITEW16	Answering systems			BOCCE5	Motors
ITEW4	PC: Notebook Computers	BOCIT1	Cathode Ray Terminals (CRT)	CEEW2	Refrigerator	BOCCE6	Transformers, CVT
ITEW5	PC: Notepad Computers	BOCIT2	Flat Panel Displays	CEEW3	Washing Machine	BOCCE8	Speakers / Inductors or Capacitor
						BOCCE7	AUDIO/VIDEO SYSTEMS

An e-waste manifest (Form 6) for e-waste handed to an authorised recycler, April 2023.

Source: records of the UPES Administration and Technical Services departments.

Section 12.2: Less waste, fewer resources on campus | **SDG 12 report**

UPES, Dehradun, Uttarakhand. UPES activity toward UN Sustainable Development Goal 12: Responsible Consumption and Production.