

## Landfill evidence at the campus of Manipal University Jaipur

### Innovative Technology Used for Solid and Liquid Waste Disposal & Management

#### Food Waste

We are generating biogas by using Organic solid food waste and main part of a biogas system is a digester. Inside this tank, bacteria convert food waste into methane gas through the process of anaerobic digestion (35 kg of methane gas produced from 500 kg of food waste)



### SOLID KITCHEN WASTE MANAGEMENT

Sl.No.	Department/ Area of source of waste (Every point of waste generation within the campus should be identified and listed - down)	Types of waste generated in each of the point source (for each type of waste, see separate row)	Dry (in kg/ day)
		Food wastage / Paper/Card board / Plastic / Wood / Glass / Metal	
Mar-19(MU) / Academic Blocks		6708	65
Mar-19(MU) / HOSTEL Blocks		4279	18
Apr-19(MU) / Academic Blocks		52	94
Apr-19(MU) / HOSTEL Blocks		1689	840
May-19(MU) / Academic Blocks		78	28
May-19(MU) / HOSTEL Blocks		2452	1651
Jun-19(MU) / Academic Blocks		64	29
Jun-19(MU) / HOSTEL Blocks		1140	200
Jul-19(MU) / Academic Blocks		85	36
Jul-19(MU) / HOSTEL Blocks		4688	240
Aug-19(MU) / Academic Blocks		104	42
Aug-19(MU) / HOSTEL Blocks		4536	440
Sep-19(MU) / Academic Blocks		07	35
Sep-19(MU) / HOSTEL Blocks		2839	227
Oct-19(MU) / Academic Blocks		138	09
Oct-19(MU) / HOSTEL Blocks		4799	82
Nov-19(MU) / Academic Blocks		66	55
Nov-19(MU) / HOSTEL Blocks		4155	75
Dec-19(MU) / Academic Blocks		84	58
Dec-19(MU) / HOSTEL Blocks		2033	45
Jan-20(MU) / Academic Blocks		112	62
Jan-20(MU) / HOSTEL Blocks		4325	74
Feb-20(MU) / Academic Blocks		78	70
Feb-20(MU) / HOSTEL Blocks		4178	82
Mar-20(MU) / Academic Blocks		52	50
Mar-20(MU) / HOSTEL Blocks		5159	49
Apr-20(MU) / Academic Blocks		23	17
Apr-20(MU) / HOSTEL Blocks		NIL	17
May-20(MU) / Academic Blocks		46	46
May-20(MU) / HOSTEL Blocks		18	35
Jun-20(MU) / Academic Blocks		43	18
Jun-20(MU) / HOSTEL Blocks		21	21
Jul-20(MU) / Academic Blocks		27	16
Jul-20(MU) / HOSTEL Blocks			

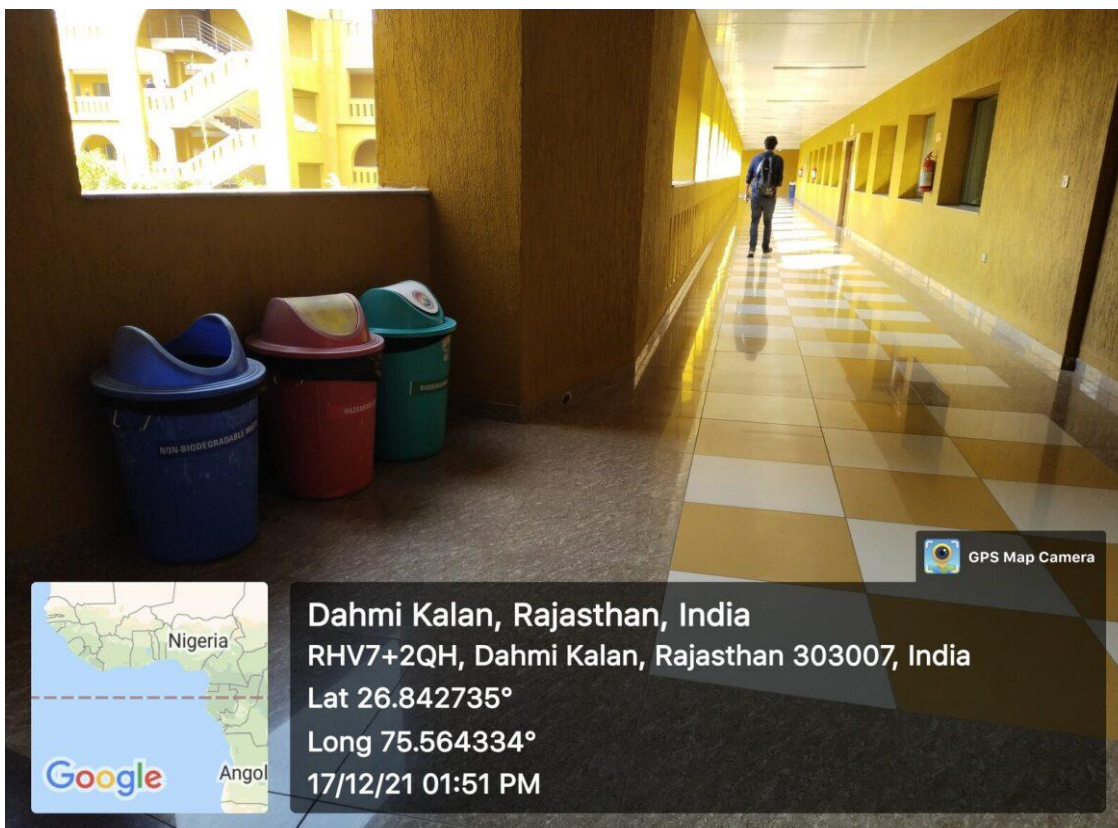
Collection frequency & clearance: Twice a day

Time: 9:00 AM & 4:00 PM



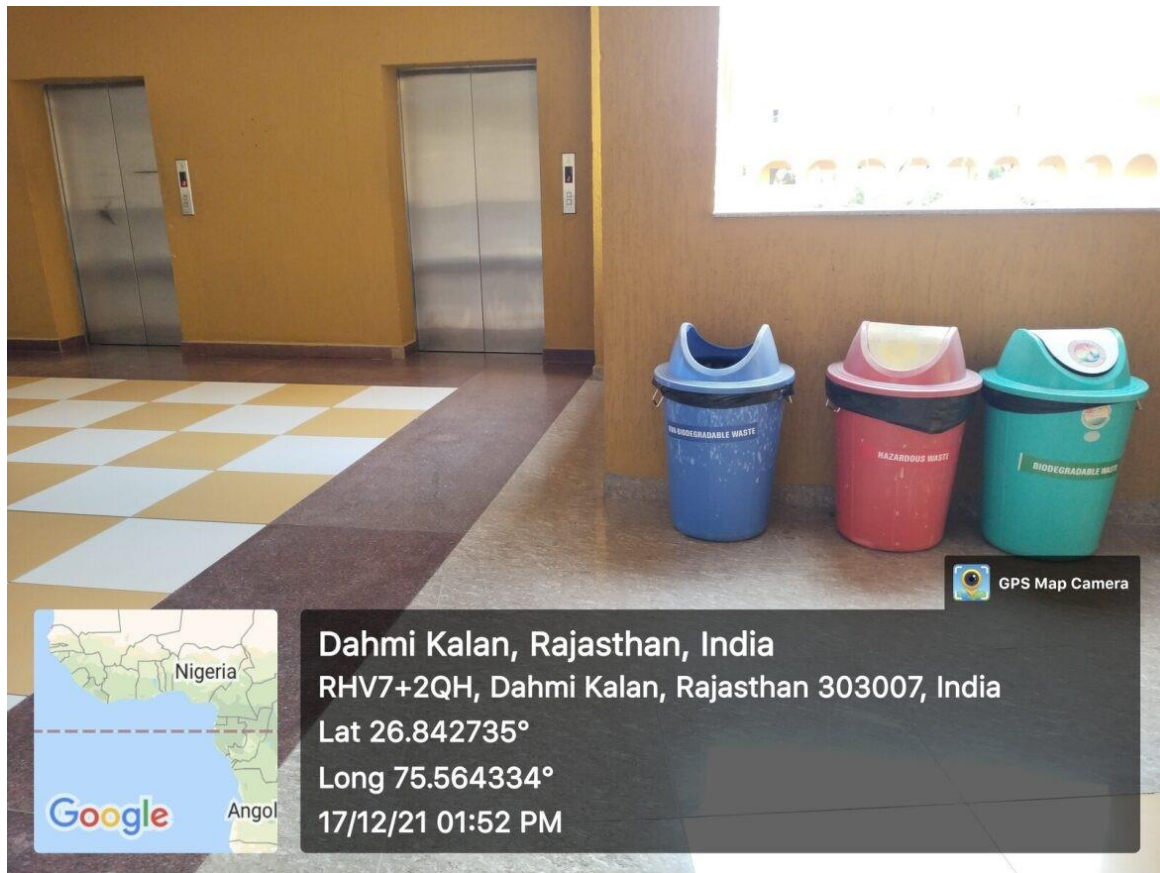


Picture 1: Student and staff segregating waste, Cleanliness drive.



Picture 2: Different bins to sort different kinds of waste.





Picture 3: Waste disposal bins available at various locations on the campus.

Picture 4: Waste into composing pit, a designated area, where organic waste materials are deposited and allowed to decompose naturally.

**Waste Usage /COMPOSE PIT**





1. Waste is collected from different corners of campus
2. After segregation, waste is put into compose pit
3. After a few weeks, earthworms and microorganisms in the soil convert the organic matter into useable compost.



Solid waste landfill, a site designed to contain trash. It has specialized structures to reduce the contamination of the surrounding soil or water.

### **Landfill site at MUJ, behind Academic Block 2**



Designating a specific location, Landfills are also currently the best option for how to handle any waste that cannot be recycled, composted, or otherwise given a new purpose.

### **Landfill site at MUJ, behind Academic Block1**