

6. WASTE MANAGEMENT AUDIT

6.1. Facility Description

The study involved carrying out various analyses to realistically assess waste generation.

There are different types of waste generated in the college and explained below.

S. No.	Description	Yes / No	Details
1	E-Waste	Yes	External Agency
2	Hazardous / Chemical Waste	No	NA
3	Solid Waste	Yes	External Agency
4	Dry Leaves	Yes	Municipal Collection
5	Food Waste	Yes	Municipal Collection
6	Waste Water	Yes	STP
7	Glass Waste	No	NA
8	Unused Materials	No	NA
10	Plastic Waste	Yes	Municipal Collection

Table 6-1: Types of Waste Generated in the college

6.1.1. TYPES OF WASTE

WET WASTE: Wet waste is all the kitchen waste that we produce. These are the waste which is collected on a daily basis in the canteen, cafeteria etc.

Example: fruit peels, vegetable peels, used tea leaves etc.

DRY WASTE: Dry Waste refers to all waste items that are not considered wet/soiled items.

These are the wastes which are found in classrooms, stationery store etc.

Example: Papers, plastic, bottles etc.

Example: Sanitary dispenser, incinerator etc.

CHEMICAL WASTE: A chemical waste is any solid, liquid, or gaseous waste material that, if improperly managed or disposed of, may pose substantial hazards to human health and the environment.

Example: phenol, acids, Dettol which is used for cleaning.

WASTE WATER: Waste water is defined as that water which has lost its potential to be used for domestic purpose.

Example: Grey water and back water which generated from washrooms and kitchens.

HAZARDOUS WASTE: It is a waste which has potential threat to students and teacher's health in the campus.

Example: Chemistry lab i.e., the concentrated chemicals.

E-WASTE: It is a generic term used to describe all types of old, end-of-life or discarded electrical and electronic equipment.

Example: Used keyboards, monitors, batteries, damaged bulbs etc.

SCRAP WASTE: Scrap consists of recyclable materials, usually metals, left over from product manufacturing and consumption.

Example: Cardboards, newspaper, aluminum roofing sheets, and other metallic things etc.

6.1.2. Dry Waste Management

Separate bins are used across the campus for waste collection. Each room (Staff, class rooms, corridors, office, restrooms, and library) is provided with the separate dustbin to segregate waste.

6.1.3. Wet Waste Management

To manage the wet waste produced in the college, which is produced from kitchens of canteens in the campus, from the remains of the tiffin boxes brought by the students, teachers, & staff of the college, separate bins were placed. These wet wastes are collected and disposed through municipal collection agency.

6.1.4. Bio- Waste Management

As part of maintaining hygienic environment for the girl's, the management has provided the sanitary napkin dispenser and sanitary napkin incinerator in the girl's toilet.

6.2. Institutional Initiatives for Waste management

6.2.1. Dust Collection Bins

Dust collection bins are placed at the college premises. The dust collection bins are used to make the segregation easier.

The sample image of dust collection bins is shown in figure 6-1.



Figure 6-1: Dust collection bins

6.2.2. Regular cleaning of campus

Regular cleaning of campus is done to maintain overall hygiene. Cleaning activities are carried out using water and floor cleaning chemicals in bucket and mop. Mopping is done every day.

The sample image of cleaning activity using bucket and mop is shown in figure 6-2.

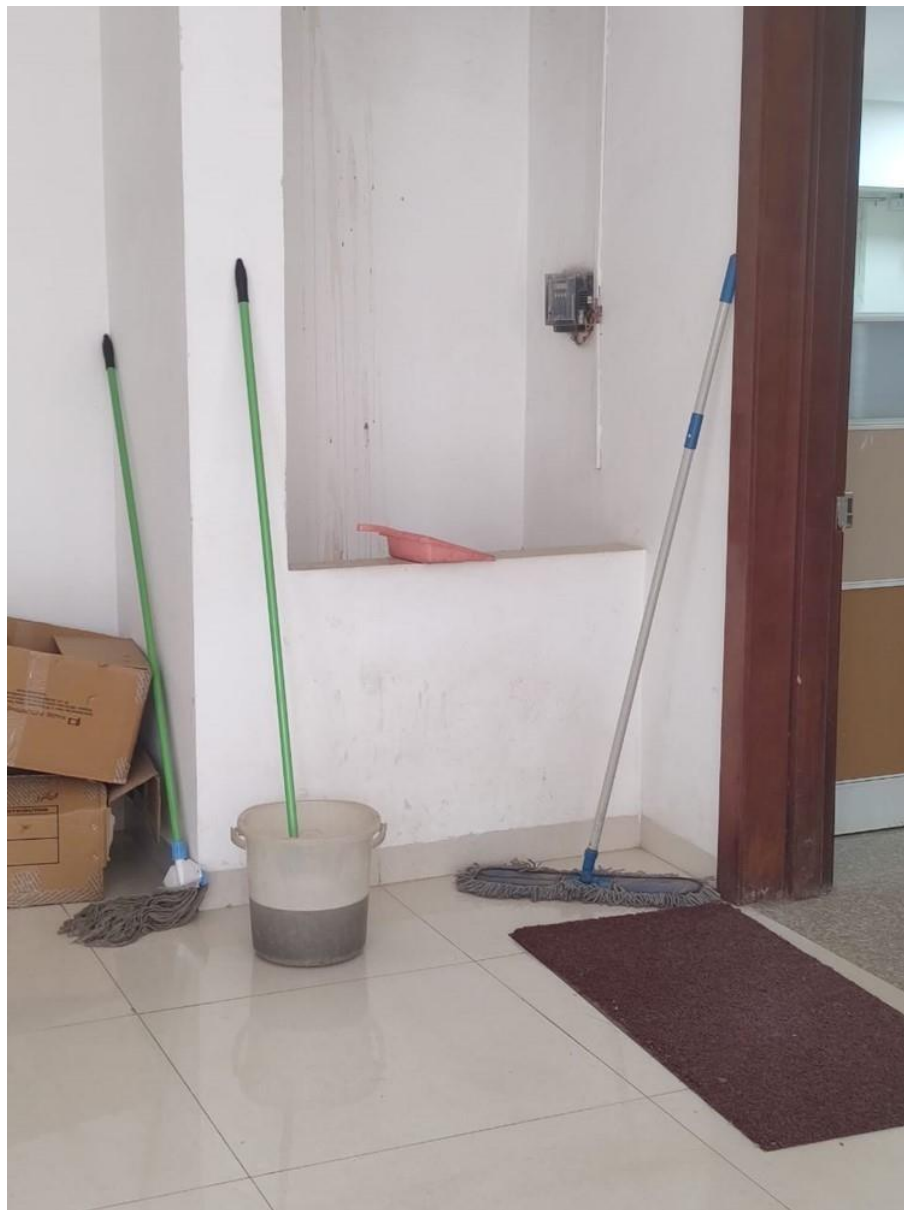


Figure 6-2: Cleaning of floors

6.2.3. Purchase of housekeeping materials

To keep the college campus clean and hygiene, the housekeeping materials like scrub, all-purpose cleaner spray, phenyls, acids, mops, garbage bags, chemical disinfectants, broom sticks, and waste bins are purchased regularly.

The purchased housekeeping materials are distributed to housekeeping staffs to carry out the cleaning activity. The sample image of purchase bill for housekeeping materials is shown in figure 6-3.

TAKE AND CARE

25, 7TH CROSS 4TH MAIN
S.R NAGAR BANGALORE - 560027

Phone : 9571236436
Website : www.takeandcare.in E-Mail : yogidodu@gmail.com

GST INVOICE
GSTIN : 29AGHPP7959C228

Invoice No. : A000072 Date : 04-08-2022
Order No. :
L.R. No. :
Cases : 0
Transport :
Due Date : 04-08-2022

M/s ISME
SY.NO.88 CHEMBIANHALLI NEAR
DOMMASANDRA CIRCLE SARJAPUR
ROAD, BANGALORE 562125 State : 29
PH.NO : 08028019800

S.	Qty.	Pack	Product	Batch	Expt	HSN	MRP	Rate	DIS	NETT	CGST	
1	65		HARPIC BLUE 500ML	25	2023	9019	89.00	76.00	0.00	9.00	9.00	4940.00
2	65		HARPIC RED 500ML			9019	89.00	89.00	0.00	9.00	9.00	5785.00
3	40		PHENOL 1 LIT			9019	55.00	55.00	0.00	9.00	9.00	2200.00
4	15		VIR BAR	1	1023	3401	10.00	9.00	0.00	9.00	9.00	135.00
5	15		MOP REFILL	23	1202	9019	185.00	148.00	0.00	9.00	9.00	2100.00
6	15		MOP SET	2	2023	9019	295.00	230.00	0.00	9.00	9.00	3450.00
7	20	SLIT	ACID	26	12023	9019	68.00	60.00	0.00	9.00	9.00	1200.00
8	15		COLOR SPRAY			2023	9019	89.00	85.00	0.00	9.00	1275.00
9	50		GARBAGE XL BAG	1	2023	3401	135.00	120.00	0.00	9.00	9.00	1200.00
10	15		CHEX CLOTH BAG	23	2023	3004	45.00	39.00	0.00	9.00	9.00	6000.00
11	15		SCUBBER SOOHA	2	2023	3401	36.00	35.00	0.00	2.50	2.50	225.00
12	50		URIND CAKE	2023	2003		45.00	39.00	0.00	9.00	9.00	585.00
13	20		SOFT BROOM	23	1025	2003	110.00	87.00	0.00	9.00	9.00	1300.00
14	15		FLOOR BRUSH	20	2023	2002	295.00	295.00	0.00	9.00	9.00	4425.00
15	20		TRUSSER ROLL BAG	08	2029	2003	60.00	52.00	0.00	9.00	9.00	640.00
16	300		SHIRT PROTECTOR TWIN	12023	9019		9.00	3.99	0.00	9.00	9.00	1197.00
17	6		STICKY NOTE SQUARE 2*2	2	2023	3004	0.00	31.00	0.00	9.00	9.00	186.00
18	1		REG TAPE	2	2023	3004	0.00	30.00	0.00	9.00	9.00	35.00
19	10		ONJAK BOX WHIT	2	2023	3004	0.00	55.00	0.00	9.00	9.00	550.00
20	1		FEW HAND LIQUID 5 LIT	2	2023	3401	8.00	360.00	0.00	9.00	9.00	560.00
21	10		S R S NOTEBOOK	1	2023	3004	8.00	167.00	0.00	9.00	9.00	1670.00
22	4		WHEEL POWDER 500GM	2	2023	3004	8.00	38.00	0.00	9.00	9.00	152.00

GST 23% 2.3% 5.83CGST 5.83CGST 4012379-PN-3811 2000GT-2811 20CGST.

SUB TOTAL **40350.00**
SGST **3616.88**
CGST **3616.88**
Roundoff **0.24**
CR/DR NOTE **0.00**
GRAND TOTAL 47584.00

Rs. Forty Seven Thousand Five Hundred Eighty Four Only

Terms & Conditions
Goods once sold will not be taken back or exchanged.
Bills not paid due date will attract 24% interest.
All disputes subject to Jurisdiction only.
Prescribed Sales Tax declaration will be given.
Certified that the particulars given above are true and correct. Checked By _____ and the amount indicated represents the price actually charged. E.S.O.E.

For TAKE AND CARE
Take & Care
Authorized signatory

47584
6181
53685

Please pay

09/08/22

Figure 6-3: Purchase bills for housekeeping materials

6.2.4. Bio- Waste Management

As part of maintaining hygienic environment for the girl's, the management has provided the sanitary napkin dispenser and sanitary napkin incinerator in the girl's toilet. The pictures of the same are given in figure 6-4.



Figure 6-4: Sanitary napkin incinerator installed in girls rest room