



WASTE MANAGEMENT POLICY

Waste management is the identification of type of wastes, collection, transportation, processing or disposal of wastes. Managing and monitoring of waste materials is essential to minimize the adverse effects on human beings and the environment. To establish a sustainable structure to practice the reduction of wastes, separation and recovery of recyclable and reusable commodities and procurement of recyclable commodities, M.Kumarasamy College of Engineering takes steps to create the best sustainable environment satisfying the "National Environmental Policy 2006".

1.0 Objectives:

To protect and conserve ecological systems and resources inside the campus

To apply the principles of good governance to the management and to regulate the use of environmental resources

To integrate environmental concerns into policies, plans and projects for institutional development

2.0 Procedure:

2.1. Source evaluation of waste inside the campus

2.1.1. Liquid Waste

Waste water (from kitchens, washrooms, bathrooms, offices, common use taps)

Food wastes (From Kitchens, Mess, Canteen and Campus dining food waste)

Waste chemicals (chemical mixtures, spirits)

2.1.2. Solid Waste

Paper waste (notebook paper, newspaper, books and magazines, tissue paper, printer paper, envelopes, Student's answer booklets, assignments)

Polymer waste (Plastic bottles, plastic paper bags, PVC carpets, plastic cutlery, shampoo bottles, cosmetics tubs, chemical bottles)

Glass waste (soft drink bottles, Lab test tubes, glass cutlery)

Food waste (non-edible food waste, vegetables, fruits peels)

Wood Waste (Broken cupboards, windows, table, chairs etc.,)

Metal Waste (From furniture, machinery etc.,)

Electrical waste (Wires)

e-waste (Computer, electronic components etc.,)

Special waste (gloves, cotton wool)

2.1.3. Gaseous waste

Chemical Laboratory fumes

Kitchen flames

Vehicle Emission

Air conditioners

Refrigerators



2.2 Segregation of waste inside the campus

The waste materials collected from different parts of the campus are taken to waste room and got segregated into biodegradable and non-biodegradable wastes.

Refer: Annexure XI

2.3. Effective waste disposal strategies

2.3.1. Source reduction, reuse and recycling are regarded as sustainable waste management practices. Awareness about waste reduction is given to all the staff members and students regularly for the effective practice of waste reduction in the institution.

2.3.2. The waste generation points in the campus and the Management Practices
Ref: Annexure XI

3.0 Responsibility : Manager, EMS Manager/Officer & All employees

3.1. The Manager shall monitor and control the waste management system in the campus.

3.2. Waste generated shall be measured on daily basis in the following locations

3.2.1. Liquid Waste at STP plant by the STP plant in-charge

3.2.2. Compostable solid waste at Bio-gas Plant by the Bio-gas plant in-charge

3.2.3. Non compostable solid waste at stores by the stores in-charge

3.3. The Manager shall monitor the quantum of wastes and initiate necessary steps to reduce it on a regular basis and the same shall be reviewed during MRM and EMS Committee Meetings

3.4. The sale of reusable and recyclable materials to the scrap buyers at stores shall be done in front of the Manager with the approval of the EMS Committee

4.0 Quality Records: Waste Management Reports

5.0 Reference: Annexure-XI of EMS Manual

6.0 Formats: Nil


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ANNEXURE-XI

Waste generation points in the campus and the Management Practices

Source	Type of Waste	Collection	Transportation	Processing / Disposal
Kitchen	Liquid	To STP	Through Pipeline	STP Processing
	Solid – Compostable 1. Vegetable, Fruits peels- nonedible 2. Food Waste	Bio-gas Digester Tank	Bio-gas plant	Bio-gas used for cooking
	Non Compostable 1. Plastic packaging covers, containers 2. Aluminum Tins 3. Cardboard boxes	Red Colour Bins	Collected big bins taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers - Sanitary Land fills
	Gaseous Kitchen Flames	NIL	NIL	Exhauster Fans and Trees are grown in the campus to compensate
Mess & Canteen	Liquid	To STP	Through Pipeline	STP Processing
	Solid – Compostable 1. Food Waste	Yellow color bins	Transferred to large bins and taken to Bio-gas sedimentation taken through Waste Transport vehicles	Bio-gas Plant
	Non Compostable (Plastic covers, containers, spoons, Aluminum Tins, Papers, Cardboard boxes etc.,)	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers - Sanitary Land fills



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Source	Type of Waste	Collection	Transportation	Processing / Disposal
Store Room	Solid Waste 1. Plastic	Collected in an separate big bins for each material according the requirements until sale to scrap buyer	Scrap buyers shall come and collect the scrap from stores	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers - Sanitary Land fills
	2. Aluminum Tins			
	3. Cardboards			
	4. Iron waste			
	5. Wood waste			
	6. Paper waste			
	7. Glass waste	White Colour Bins	Collected from all the departments	Sent to Municipal waste collection
	8. Electrical Waste	Send it to Store	Store will collect from all the Labs	Send it to authorized person
	9. e-waste	Send it to Store	Store will collect from all the Labs	Send it to authorized person
	10. Debris	- Separating and salvaging useful materials - Non useful waste		- Land fills
Boys Hostel / Boys Hostel Toilets / Girls Hostel	Liquid Bathroom/ Toilet waste	To STP	Through Pipeline	STP Processing
	Solid – Compostable 1. Food Waste	Yellow color bins	Transferred from small bins to large bins and large bins are taken to Bio-gas sedimentation taken through Waste Transportation vehicles	Bio-gas Plant
	Non Compostable (Plastic covers, containers, spoons, Aluminum Tins, Papers, Cardboard boxes etc.,)	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers - Sanitary Land fills - Incineration



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Waste generation points in the campus and the Management Practices

Source	Type of Waste	Collection	Transportation	Processing / Disposal
Girls Hostel Toilets	Sanitary Napkins	Napkin disposal machine	Available in each toilet	Incinerated
College Campus Toilets-Boys	Liquid Bathroom/ Toilet waste	To STP	Through Pipeline	STP Processing
College Campus Toilets-Girls	Liquid Bathroom/ Toilet waste	To STP	Through Pipeline	STP Processing
	Sanitary Napkins	Napkin disposal machine	Available in each toilet	Incinerated
1. Office Room 2. Staff Rooms 3. Class Rooms 4. Library 5. Conference / Function Halls	Solid – Compostable 1. Food Waste	Yellow color bins	Transferred from small bins to large bins and large bins are taken to Bio-gas sedimentation taken through Waste Transportation vehicles	Bio-gas Plant
	Compostable Papers Waste Cardboard boxes etc.,	Blue Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers - Sanitary Land fills
	Non Compostable Polymer waste (Plastic covers, containers, spoons, Aluminum Tins,	Red Colour bins		
	e-waste	Send it to Store	Store will collect from all the Labs	Send it to authorized person



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Source	Type of Waste	Collection	Transportation	Processing / Disposal
Laboratories				
Chemistry Lab	Chemical Waste (Diluted chemicals are used)	Leach bed/STP	Through Pipeline	STP Processing/ separation of manure
	Glass Waste	White Bin	Separately send it to stores	Send it to Municipal Corporation
Physics Lab	e-Waste	Send it to Store	Store will collect from all the Labs	Send it to authorized person
Mechanical Lab	Metal waste	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers
	Wood waste			
	Liquid Waste			
Workshop	Metal waste	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers
Electrical & Electronics Lab	Polymer waste	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers
	Metal waste			
Civil Lab	Chemical Waste (Diluted chemicals are used)	STP	Through Pipeline	STP Processing Depressed will be use for land filling
Computers Lab	Polymer waste	Red Colour bins	Collected from all floors in big bags and taken to Stores through Waste Transportation vehicles	- Separating and salvaging useful materials at stores for reuse & recycle through selling it to Scrap Buyers



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Waste generation points in the campus and the Management Practices

Source	Type of Waste	Collection	Transportation	Processing / Disposal
Campus Common Area				
Vehicle Parking Area	Non Compostable Polymer Waste (Plastic cover, Plastic Cups, Containers, Metal Tins, etc.,)	Red Colour Bins		
Garden Area	Dried leaves	Green colour Bins	Collected	Land Fill and Compose
Play Grounds				


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