

## **Waste Management**

The college has constituted the ‘Green Audit and environmental audit committee’ to look after the solid, liquid and e-waste management and other environmental issues. The committee sets out to identify the types of wastes, category of waste generators, how to collect, handle and dispose wastes. Few steps outlined below are identified for the waste management process.

### **STEPS OF WASTE MANAGEMENT**

#### **1. Survey of waste:**

Primarily we identify sources of wastes and types of wastes generated in the college campus. Therefore, first step for waste management system is Waste Survey.

#### **2. Sources of Wastes from where waste generates:**

The committee has prepared a list of places from where the wastes are generated in the campus.

1. Principal office
2. Administrative Office
3. Library building
4. Seminar Halls and Students Classrooms
5. Indoor sports hall cum Auditorium
6. College Canteen
7. Girls Hostel
8. Dining Halls
9. Hostel Kitchen
10. Hostel Grocery Stores Room / Crockery Store Room
11. Health Centre
12. Play Ground
13. Various Departments
14. Laboratories.

#### **3. Types of Wastes and existing practice of waste disposal**

After finding the places from where waste is generated, the next step is to dispose the different types of wastes (wet, dry and hazardous waste) as per the plan mentioned in the table below.

<b>Type of waste</b>	<b>Disposed at common waste bins Municipality use it for</b>	<b>Dumped in road side, and street corners / vacant plots</b>	<b>Send to Waste Pickers for recycling</b>
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	composting		
<b>Wet Waste</b>			
Vegetable peels	✓		
Fruit peels	✓		
Rotten fruits and vegetables	✓		
Leftover food	✓		
Used tea / tea bags	✓		
Used coffee ground	✓		
Egg shells	✓		
Expired other food items	✓		
Mango kernel & any seed		✓	
Coconut fibre	✓		
Used flowers / dry flowers	✓		
Spoiled spices	✓		
Floor sweeping dust	✓		
Garden shrubs	✓		
<b>Dry Waste</b>			
Soap covers / pockets / sachets	✓		
Empty shampoo bottles, Empty perfume bottles / containers of deodorants / shaving creams	✓		✓
Empty Chemical Bottles			✓
Milk covers	✓		✓
Used door mats/door mats			✓
Used tooth brush			
Chocolate wrappers	✓		
Butter wrappers	✓		
Used mop cloth	✓		
Ghee / oil pockets / cans			✓
Package / polythene covers / Plastic covers			✓
Newspapers / card boards			✓
cosmetics containers			✓
Styrofoam			
Broken stationery like used pens, pencil sharpener			✓
Empty cans of floor cleaners			✓
Kurkure / Lays packets	✓		
Sachets (of shampoo, creams etc.)	✓		
Bisleri kind of water bottles			✓
Used tooth paste tubes etc.	✓		
Metal tins, and cans (e.g Pepsi Coke cans)			✓
Small tubs like the ones used for yogurt, cheese, jam			✓
<b>Hazardous Waste</b>			

Mosquito repellent refill bottles/ Mosquito repellent mats			✓
Expired medicines		✓	
Tablet covers / Syrups bottles			✓
Any medical discard		✓	
Sanitary napkins	✓		
Children's diapers	✓		
Used razor / razor blades	✓		
Old batteries			✓
Fused bulbs / tubes / electrical items	✓		✓
Broken glasses / ceramics	✓		✓
Empty cans of toilet cleaners			✓
Expired cosmetics		✓	
Cockroach killers / spray cans			✓
Old printer cartridge / CDs	✓		✓
Waste generated at Laboratories after proper treatment		✓	
Old Electronic items / parts			✓
Pieces of wires, old chargers, old pen drives	✓		✓

#### 4. List of e-waste:

1. CD/DVDs
2. Pen drives
3. Cables / Wires
4. External drives
5. Modems
6. GPS units
7. Thermostat flasks
8. Calculators
9. Dry cell batteries
10. Electronic scrap parts
11. Mouse / Key board such items
12. Speakers
13. PCs
14. Laptops
15. Printers
16. Air-conditioners
17. Freezers
18. Digital Thermostats
19. Fluorescent Lamps and tubes
20. Incandescent Light bulbs.

### **A. Solid Waste Management:**

Wet Waste especially from kitchen & girls hostel such as vegetable refuses, food scraps etc. are collected & Transported to Municipal Corporation Beed for composting.

Basic principles of Dry Waste Management are 4Rs: Refuse, Reduce, Reuse & Recycle:

Segregation at source: Store biodegradable and non biodegradable solid waste in different bins. Segregated solid waste being sent to Municipal corporation of Beed as we have a collaboration for the treatment of solid waste.

### **B. Liquid waste Method:**

Liquid waste is appropriately treated for minimizing its toxicity before being discharged into the sewer systems or dumped into land pit or burn it. Liquid waste is treated with chemical disinfectants, neutralized with appropriate reagents then flushed into the sewage system. Thus, liquid waste management includes procedures and practices that prevent discharge of untreated pollutants to the drainage system or to water bodies as a result of the creation, collection, and disposal of non-hazardous liquid wastes.

### **C. E-waste Management:**

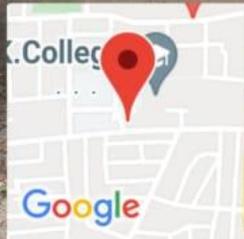
Designate a room in the Campus which may be called 'Material Recovery Centre' (MRC). The discarded e-wastes from all the office blocks in the campus shall be sent to the MRC, and stored there until it is sent to e-waste recyclers. Electronic-waste from office can be discarded in two ways. One way is Extended Producer Responsibility (EPR). Under EPR manufacturers of computers, and other electronic items should take back end-of-life products. If some Producers / manufacturers want to appoint a 'Producer Responsibility Organisation', which - on behalf of manufacturers - collect, dismantle and recycle end-of-life products can do so. Institution is used such facility for the disposal of e-waste. The idea is demanding the producers to take back e-waste through the same channel they used for placing a products in customers hands.

### **D. Waste water treatment plant:**

Within a college campus, we have waste water treatment plant. After treatment, water is used to wash floors and other cleaning purposes.

E. The college has made chemical waste disposal contract with the 'Champawati waste management', Beed for the disposal of hazardous chemical waste as per SOP.





**Beed, Maharashtra, India**  
Navghan College Rd, Kranti Colony, Datta Nagar, Beed,  
Maharashtra 431122, India  
Lat 18.985713°  
Long 75.750016°  
03/01/22 01:43 PM

GPS Map Camera



Navgan Shikshan Sanstha Rajuri (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku  
Arts, Science & Commerce college, Beed-431122.

Principal-Dr.D.B.Kshirsagar

NAAC reaccredited -A Grade

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Ref : kskcb/2017-2018/22

Date 19/07/2017

To,  
P.C.Care  
Beed.

Sub :- Regarding e-waste management.

Sir,

With reference to above cited subject I am to inform you that, our institution buys electronic products and computers from yours shop / concern on extended procedure responsibility (EPR). As per EPR, it is supposed that at the end product life, the supplier should take back the goods under the disposal of e-waste management.

So, you are requested to cooperate in this regard and provide us supplier responsibility.

Organization letter to us.

Thanking you,



Principal.

## Chemical waste disposal contract

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The chemical waste disposal contract between the Department of Chemistry, Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College, Beed. and Champawati Waste Management, Beed is being come to exist for the chemical waste management. Under this contract both departments are agree to work together for the management of chemical waste generated during practicals and the chemicals which are not in good condition to be used for practicals. Hence the contract is signed for the duration of next three years from June 2016.

Head Dept of Chemistry  
Head  
Mrs. K.S.K. College, Beed  
Department of Chemistry  
Mrs. K.S.K. College, Beed.

Champawati Waste Management,  
Beed.  
Champawati Waste Management  
Beed.

Principal

Mrs. K.S.K. College, Beed.



Navgan Shikshan Sanstha Rajuri (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku  
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Ref: kskcb/2017-2018/12

Date 12 /07 / 2017

To,  
**Cleanliness Dept.**  
Municipal Council,  
Beed.

Sub :- **Regarding the disposal of solid waste.**

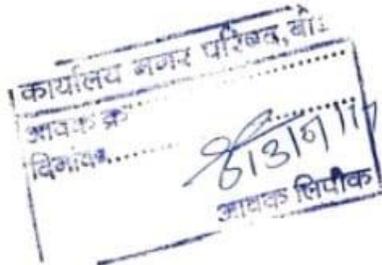
Sir,

With reference to above cited subject, I would like to request you to collect the solid waste from our college of various departments and open space to dispose it properly frequently.

Kindly do the needful in this regard and cooperate us for the same.

Thanking you.

Principal.



## Solid waste collection pots and dustbins





 GPS Map Camera



**Beed, Maharashtra, India**  
XQP2+H3X, Datta Nagar, Beed, Maharashtra  
431122, India  
Lat N 18° 59' 10.0284"  
Long E 75° 45' 1.5408"  
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GPS Map Camera



### Beed, Maharashtra, India

Shivrajya Heights, Driving School St, opposite to R.P. College, Datta Nagar, Beed, Maharashtra 431122, India  
Lat N 18° 59' 9.582"  
Long E 75° 45' 2.7936"  
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Chemical Waste  
Container

GPS Map Camera



**Beed, Maharashtra, India**  
XQP2+H3X, Datta Nagar, Beed, Maharashtra  
431122, India  
Lat N 18° 59' 10.0644"  
Long E 75° 45' 1.5192"  
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