



## Solid Waste Management

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MVJ college of Engineering with association with Hasiru Dala an NGO that works for rag pickers with a MOU have taken initiatives to Segregate the waste at source which is the first and most important step in waste management and [environment](#) preservation. It allows for better disposal of waste and encourages more recycling and reuse of matter. Lack of segregation is the root cause of clogged landfills, blocked drains, soil and water pollution and can hinder the entire process of waste disposal, recycling and reuse

For effective Waste management preliminary study was conducted to access the waste produced in the MVJCE Campus. 50 faculty members and 200 students have participated.

### **Here are our observations:**

1. The wet waste that is generated from the canteen is mostly segregated and the wet waste is sent out to piggeries.
2. The college is generating a huge amount of Garden waste which is mostly in the form of leaves. The garden waste is also mixed with dry waste which is mostly papers and plastic packets.
3. In the common areas there are single bins kept, the bins are using black liners for waste collection.

### **The recommendations by Hasiru dala to start a waste management process in the college:**

1. The college can continue sending out the wet waste to the piggeries, or the college can also opt to compost the wet waste inside the campus by the method of tank composting. The compost might be used in the garden layout.
2. The huge amount of leaves can be composted using the method of mesh composting. We can help you in setting up the composting unit and also training your people to run the composting units. We can help you with the collection of the branches and the dry waste.
3. Hasiru Dala Innovations can help in training the students, faculties and housekeeping staffs in segregation.

4. Reduce the usage of black liners in the common bins.
5. Keeping separate bins at common places for dry and wet waste. The bins shall be properly labeled.
6. In the hostel areas, we can keep a set of 2 bin 1 bag for separate collection of dry wet and reject/sanitary waste.

MVJ college of Engineering has taken initiatives to segregate the waste at source which is the first and most important step in waste management. The college encourages the process of eco friendly waste disposal method. Maximum waste generated is recycled and reused. For the same, all housekeeping staffs are trained to segregate waste at source before the waste is dumped for disposal. The different forms of waste generated in the campus are Kitchen waste/ food waste, Paper waste, E waste, dry - organic waste (leaves) and liquid waste/ sewage. The waste that is generated from the canteen is food waste and vegetable peels are mostly sent out to piggeries. The college also generates a huge amount of Garden waste which is mostly in the form of leaves which is deposited in separate chamber and composted to form manure and used for organic farming. The liquid waste is recycled through sewage treatment plant, and used for gardening. The other paper waste and E-waste are sent out through our regular scarp vendors.

### **GREEN PRACTICES AT MVJCE**

- Students, staff using
  - Bicycles
  - Public Transport
  - Pedestrian Friendly Roads
- Plastic free campus
- Paperless office
- Green landscaping with trees and plants

## Description of efforts towards green practices on the campus

1. Green audit of the institute is conducted annually by the chemistry, and Civil Engineering section Department.
2. Extensive Tree Plantation is done for every year through NSS and Eco Club.
3. Rain water harvesting system is adopted.
4. The college encourages the process of eco friendly waste disposal method where most of the waste generated is recycled and reused.
5. The college has nurtured number of trees of different variety encouraging biodiversity of flora and fauna.
6. Office work is done in a paperless manner in the college by communicating through official E-mail. ERP software is used to maintain students attendance and HRM.
7. To conserve water, recycled water from STP is used through sprinkler system for gardens and lawns.
8. Special contract is given to outside agency to keep campus neat and clean.
9. College buses are provided for students and staff covering major parts of Bengaluru city. The location of the college supports easy public transport access to the commuters.

### **Environment Projects**

For the academic year 2017-18, Eco club of Civil Engineering Department have taken an initiative to motivate and encourage students to take up project to address the Environmental issues like solid waste management, Ground water Quality, water resource and treatment.

Faculty's member specialized in issues and dealing with environment project

Dr. A Navaneetha Gopalakrishnan, Professor

Mr. Vetrivel , Assistant professor

Mrs. Anupama, Assistant professor

Mrs. Dakshayani.TR, Assistant professor

Mr. Damodaran.D, Assistant professor

Mr. Shiva Kumar N.V, Assistant professor

Under guidance of above faculty members various final year projects are proposed and abstract are submitted.

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