

**BJS**  
Bharatiya Jain Sanghatana

संस्थापक अध्यक्ष  
शांतिलाल मुध्या

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धुमनामरी : ९८२२२९६५९६

**BHARATIYA JAIN SANGHATANA'S**  
Arts, Science & Commerce College

**भारतीय जैन संघटनेचे**  
कला, विज्ञान व वाणिज्य महाविद्यालय

NAAC Re-Accredited 'B' Grade

● Run by Jain Minority Institute ● Affiliated to SPPU, Pune ● ID No. PU/PNI/ASC/113/1995 ● A.I.S.H.E. Ref. No.: C-41341

## **SOLID WASTE MANAGEMENT**

Waste is unwanted useless material like garbage, junk, litter, ort, trash.

Waste management is the collection, transport, processing, managing, and monitoring of waste material.

### **Aim and objective:**

- 1) **Disposal of solid organic waste.**
- 2) **To control air, water, soil pollution.**
- 3) **Production of green manure and vermicopost.**

### **❖ Vermicompost Units**

The college campus, Botanical garden and campus mess produce a wide range of organic wastes, such as straw, leaves, stalks, weeds, vegetable wastes, processed food and paper.

Zoology department has constructed two permanent chambers for vermicomposting under a shady tree in Botanical garden. First unit is of 12 ft length, 4 ft width, and 2 ft deep, which is about 2 ft above ground to avoid entry of rainwater into the chambers. Second unit is 1 feet deep. We are using *Eisenia foetida* species of the earthworms for vermicomposting as this species has high conversion ratio.

Unit 1 is used for vermicomposting and Unit 2 is used for decomposing the organic waste. Both the units are covered.

Earthworms are used to manage all these agricultural wastes, earthworms convert this waste into humus or manure or 'Vermicompost' or worm castings, which is a nutrient-rich and biologically beneficial soil product. Vermicompost enhances plant growth, suppresses disease in plants, increases porosity and microbial activity in soil, and improves water retention and aeration. Vermicompost also benefits the environment by reducing the need for chemical fertilizers and decreasing the amount of waste going to landfills. Vermicompost contains 2 times more [magnesium](#), 15 times more [nitrogen](#), and 7 times more [potassium](#) compared with the surrounding soil









Latitude: 18.590841  
Longitude: 73.99914  
Elevation: 605.72m  
Accuracy: 9.0m  
Time: 10-06-2019 17:56  
Note: Sewage treatment plant



Latitude: 18.589796  
Longitude: 73.998306  
Elevation: 585.73m  
Accuracy: 4.0m  
Time: 02-07-2019 11:52  
Note: Sewage treatment plant



Latitude: 18.589853

Longitude: 73.998245

Elevation: 593.73m

Accuracy: 7.0m

Time: 02-07-2019 11:51

Note: Sewage treatment plant





Latitude: 18.590342  
Longitude: 73.998373  
Elevation: 591.73m  
Accuracy: 3.0m  
Time: 02-07-2019 11:39  
Note: Water tank and water filtration unit



Latitude: 18.590363  
Longitude: 73.998444  
Elevation: 591.73m  
Accuracy: 3.0m  
Time: 02-07-2019 11:38  
Note: Water tank



Latitude: 18.590305

Longitude: 73.998494

Elevation: 579.73m

Accuracy: 6.0m

Time: 02-07-2019 11:36

Note: Filtration of Drinking water unit



Latitude: 18.59049

Longitude: 74.000602

Elevation: 595.72m

Accuracy: 4.0m

Time: 02-07-2019 11:12

Note: Rain water collection chamber