



Maratha Vidya Prasarak Samaj

G. M. D. Arts, B. W. Commerce and Science College, Sinnar, Dist. Nashik

Affiliated to Savitribai Phule Pune University, Pune

Best College Awarded by SPPU2012-13

ISO 9001:2015 Certified College

Id.No.PU/NS/ASC/013/1969

AISHE:C-41292

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www.gmdcollege.in

INTERNAL QUALITY ASSURANCE CELL

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

7.1.2 Waste Management Facility



7.1.2 Waste Management



**Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce
& Science College, Sinnar**

Tal. Sinnar, Dist. Nashik - 422 103 (M.S.) INDIA

**Best College Award by Savitribai
Phule Pune University 2012-13**

Dr. P. V. Rasal

(M.A., LL.B., Ph.D.)

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**Affiliated to Savitribai Phule Pune
University ID No. : PU/NS/ASC/013/(1969)**

Junior College No. J.13.13.001

HTE Sevaarth ID - 06220100119_AST AISHE - C - 41292

Ref. No. 537/2023-24

Date : 13/07/2023

DECLARATION

This is to declare that the information, reports, true copies of the supporting documents, numerical data, provided links, institutional data, photographs etc. submitted/presented herewith is verified by Internal Quality Assurance Cell (IQAC) of this college and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for the 4th Cycle during the period from 2017-2018 to 2021-2022.

Date: 13/07/2023

Place: Sinnar

**Dr. C. E. Gurule
Coordinator, IQAC
Co-ordinator
IQAC**

**G. M. D. Arts, B.W. Commerce & Science
College, Sinnar, Dist. Nashik 422103**



Dr. P. V. Rasal

Chairman, IQAC and Principal

**PRINCIPAL
G.M.D.Arts, B.W.Commerce and
Science College, Sinnar,Dist.Nashik**



**Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce & Science College, Sinnar, Tal. Sinnar, Dist. Nashik**

Vermi-compost Fertilizer Unit Report

The college has a Vermicompost Fertilizer Unit of 10 beds. The unit was established in 2009. The project was funded by UGC. The unit comprises total 10 beds. They are constructed with bricks and cement with the depth of 2.5 feet and the width of 2.00 feet. They are covered with a tin roof. For the continuous moisture, a water supply is provided with a PVC pipeline.

There are three layers in a bed. The first layer is made up of the coarse sand. The layer of the coarse sand is covered with the clay. The third layer is made up of the fine sand which covers the soil layer. The organic material is filled on as base of the sand and clay layer in the unit beds. The slurry of dung is spread on the upper surface of the organic waste material. The leaves, fruits and grass are collected from the entire campus. The organic waste material and cow dung are used as food material for the worms.

The earthworms (*Eisenia Foetida*) are introduced into the beds for the further process of decomposition and formation of vermicompost from the manure. The worms inhabit in the beds and continuously feed on the organic matter and produce excreta which is used as a rich compost fertilizer. Simultaneously, the worms also excrete liquid waste known as vermivash which is useful for the agricultural purpose as a pesticide.

After every two months, we collect the vermicompost manure from the beds with the careful handling of the worms. The collected fertilizer is packed in the degradable bags and distributed in campus as per the requirement of the departments. It is used for the college gardens such as *Rashi*, *Nakshatra*, *Vrundavana*, Mango garden and the Botanical Garden.

Department of Zoology takes care of the unit and maintains the record of the distribution of the fertilizer.

The benefits and the significance of the activity are as follows:

- Reduces waste and produces rich bio fertilizer and creates balance in the ecology
- Increases crop yield and declines the dependence of the chemical fertilizers

- Soil structures affected by principally through the formation of burrows which produces porous nature of soil
- Increases water infiltration and water holding capacity of soil and the aeration of soil
- Earthworm castes are enriched with the essential plant nutrients and enhances soil fertility.

Photographs



Organic Waste dumped in the Beds



Compost Fertilizer is Provided to the staff





Earthworm Species *Esiana Foetida*



Preparation of vermicomposting BED



Degradable waste is collected



Manure

Quail
CO-ORDINATOR
IQAC
G.M.D. Arts, B.W Commerce
And Science College, Sinnar



Prasad
Principal
G. M. D. Arts, B. W. Commerce and
Science College, Sinnar, Dist. Nashik