



Dr. A. Arjuna Apparao , Lecturer in Zoology Explaining the Method of



Vermicomposting



Staff and Students of SGA Govt. Degree College (A), Yellamanchili

Vermi Composting Pits After Watering





Vermi Compost

Report on Field Visit to Vermicomposting Unit, Line Kotturu

(Solid Wealth Processing Centre)

Date : 09.12.2025

Vermicomposting is a method of preparing enriched compost with the use of earthworms. It is one of the easiest methods to recycle agricultural wastes and to produce quality compost. Earthworms consume biomass and excrete it in digested form called worm casts. Worm casts are popularly called as Black gold. The casts are rich in nutrients, growth promoting substances, beneficial soil micro flora and having properties of inhibiting pathogenic microbes. Vermicompost is stable, fine granular organic manure, which enriches soil quality by improving its physicochemical and biological properties. It is highly useful in raising seedlings and for crop production. Vermicompost is becoming popular as a major component of organic farming system. Using Vermicompost can fulfil the requirements for organically grown products. The red worm (*Eisenia foetida*) is used in vermicomposting because its natural habitat is close to the surface and accustomed to a diet rich in organic matter, this makes it ideally suited to kitchen scraps and to living in bins. The earthworms are bred in a mix of dung, soil, and agricultural residues or pre decomposed leaf-litter. Vermicompost contains water-soluble nutrients and is an excellent, nutrient-rich organic fertilizer and soil conditioner. It is used in farming and small scale sustainable, farming.

Objectives of Field Trip

- **To gain knowledge about vermicomposting.**
- **To understand the vermicomposting process**
- **To understand the importance of vermicomposting.**
- **To analyse future employability opportunities**

Process Demonstration: The students were then guided through the various stages of vermicomposting, which included:

- Preparation of Organic Waste: The process of segregating biodegradable waste and its pre-composting treatment.
- Role of Earthworms: Detailed insights into the selection of earthworm species such as *Eisenia fetida* (red worms), their role in decomposing organic matter, and their contribution to soil enrichment.
- Composting Process: Step-by-step observation of waste breakdown by earthworms, the collection of vermicast, and the formation of nutrient-rich compost.
- Importance of Vermicomposting: Management of organic waste, Simple technology, Eco-friendly, Waste reduction at the source

Interactive Session:

Students had the opportunity to engage in hands-on activities such as spreading organic waste in compost beds, identifying earthworm species, and collecting compost samples. An interactive Q&A session followed, where students raised queries about composting techniques, maintenance of vermibeds, and the commercial applications of vermicompost.

Feedback:

The visit was highly appreciated by the students for its informative and interactive approach. Many students expressed enthusiasm about incorporating vermicomposting techniques into their own home gardens. Faculty members also commended the facility for its comprehensive demonstration and effective engagement with the students.



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(Re-Accredited with NAAC "A" Grade with CGPA 3.13)

Affiliated to Andhra University

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