

## VERMITECHNOLOGY UNIT

Year of Establishment : 2021-22

**Vermitechnology** is the method of producing organic fertilizer using earthworms. It is an eco-friendly technology that uses worms to decompose organic materials such as waste, leaves, manure, and crop residues.

### Key Components of Vermitechnology:

#### 1. Vermicomposting:

Vermicomposting is the process of converting organic waste into fertilizer with the help of earthworms. Worms break down various organic materials and transform them into nutrient-rich compost, improving soil health.

#### 2. Earthworm Species:

The main species of earthworms used in vermitechnology are *Eiseniafetida* (red worm) and *Eudriluseugeniae*. These species decompose organic matter quickly and are highly effective in producing compost.

#### 3. Vermibed:

A vermibed is a designated area where compost is produced using worms. It is typically constructed on the ground or a solid surface and filled with organic waste, manure, leaves, and earthworms.

#### 4. Vermitea:

Vermitea is a liquid extract from vermicompost. When sprayed on plants, it enhances their immunity and growth.

### Benefits of Vermitechnology:

#### 1. Organic Fertilizer Production:

This method increases the quality of organic fertilizer, improving soil fertility and boosting crop yield.

#### 2. Environmentally Friendly:

Vermitechnology effectively manages organic waste and protects soil from the harmful effects of chemical fertilizers.

#### 3. Low Cost and Simplicity:

This technology requires no special machinery, making it affordable and easy to implement for producing organic fertilizer.

#### 4. Water Retention:

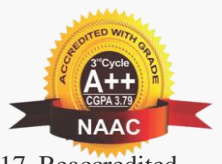
Vermicompost improves the water-holding capacity of the soil, reducing the water stress on crops.



Maratha Vidya Prasarak Samaj's

**KRT Arts, BH Commerce and AM Science (K.T.H.M.) College, Nashik 422002**

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College with Potential for Excellence (CPE) Status by UGC, Best College Award by SPPU in 2004 & 2017, Reaccredited by NAAC with "A++" Grade (CGPA- 3.79), Recipient of UGCSTRIDE Scheme and UGC-PARAMARSH Scheme, DST-FIST Sponsored College, DBT STAR College Status

### Available Infrastructure :

Sr. No.	Particulars	Dimension / Size
1.	Total Area with Chainlink Fencing	21.78 Sqm
2.	Vermiwash Collection Tank	200 liter Capacity
3.	MS Fabricated Vermicomposting tank with Shed (Qty:2)	12x4x3 Feet

### Expenses Incurred for Sericulture Unit:

Sr. No.	Particulars	Date	Amount
1	Foundation, Civil Work and Fencing Work	07/02/2022	1,99,944/-
<b>Total</b>			<b>1,99,944/-</b>

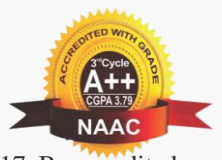
### Available Equipments:

Description	Quantity
MS Fabricated Vermicomposting tank with Shed	02
Bio-waste Shredder	01
Rotating Waste-Care Composter Kit	01
Iron sieve	01

  
**Co-ordinator**  
Internal Quality Assurance Cell (IQAC),  
KRT Arts, BH Commerce &  
AM Science (KTHM) College, Nashik - 2.



  
**PRINCIPAL**  
K.R.T. Arts, B.H. Commerce &  
A.M. Science College, Nashik-2



Established vermitechology unit



Celebrating the introduction of nutrient-rich Vermicast and Vermiwash at the college.



## Facilities Available in the Vermitechnology Units:

### 1. Educational Visits:

Guided tours for students, researchers, and agricultural enthusiasts to explore vermicomposting processes and sustainable waste management practices.

### 2. Hands-on Training:

Practical sessions where participants can engage in the vermicomposting process, from setting up vermibeds to harvesting vermicast and vermiwash.

### 3. Workshops and Seminars:

Regular workshops and seminars focusing on vermiculture, organic farming, soil health, and eco-friendly agricultural techniques.

### 4. Demonstration Plots:

Live demonstration areas showcasing the benefits of using vermicast and vermiwash in agriculture, with visible improvements in soil fertility and crop health.

### 5. Selling Vermicast and Vermiwash:

Organic vermicast (solid compost) and vermiwash (liquid fertilizer) are available for sale to farmers, gardeners, and organic farming enthusiasts.

### 6. Consultancy Services:

Expert advice and consultancy for farmers, institutions, and individuals interested in setting up their own vermiculture units, along with guidance on maximizing production and sustainability.

  
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