

# The Complete Technology Book on Vermiculture and Vermicompost

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The production of degradable organic waste and its safe disposal have become the current global problem. The rejuvenation of degraded soils by protecting topsoil and sustainability of productive soils is a major concern at the international level. Vermicomposting is compatible process with sound environmental principles that value conservation of resources and sustainable practices. Vermicompost is known to be the world best organic fertilizer. Vermiculture is for vermicompost. Vermiculture means artificial rearing or cultivation of worms (Earthworms) and the technology is the scientific process of using them for the betterment of human beings. Vermiculture technology has improved the crop productivity by increasing soil fertility through ecological methods of farming. Vermiculture has been embraced throughout the world right from the developed countries to the developing countries. Vermicomposting is a panacea for solid waste management. It is a simple kindred process of composting, in which certain species of microorganism such as earthworms are used to enhance the process of waste conversion and produce a better end product. Earthworms serve as nature plowman to facilitate these functions. They form gift of nature to produce good humus, which is the most precious material to fulfill the nutritional needs of crops. The utilization of vermicompost results in several benefits to farmers, industries, environment and overall national economy. This contains experiments from the field, vermicomposting materials, earthworm life cycle, ecological types earthworms, role of earthworms, vermicomposting, advantages of vermiculture, vermitechnology. This book majorly deals with advantages of vermicomposting, vermicomposting in daily life vermiculture v/s vermicomposting, earthworms: ecological types, physical and chemical effects of earthworms on soils, fertilizers use and deterioration of soil environment, vermicomposting materials, feeding vermicomposting materials, ideal conditions for life of earthworms, earthworms : their application in organic agriculture, maintenance of vermicomposting beds, vermicomposting : general procedures at agricultural farms vermicomposting : kiss plan, vermicomposting: a world scenario, soil fertility and texture, advantages of vermiculture, small scale or indoor vermicomposting, large scale or outdoor vermicomposting etc. This book is an invaluable resource for readers, entrepreneurs, scientists, farmers, existing industries, technical institution, etc.

## Contents

### 1. INTRODUCTION

Advantages of Vermicomposting

Vermicomposting in Daily life

Vermiculture v/s Vermicomposting

Vermitechnology (VT)

Progress of worm industry  
Turning Garbage into Money  
Chemical composition of the Vermicompost  
Vermicomposting at Home  
Vermicomposting on the Farm  
The Business of Worms  
Interaction of Vermicompost-Earthworm-Mulch-Plantroot (Vemp)  
Earthworm Farming is not hard

## 2. EARTHWORMS : ECOLOGICAL TYPES

Trophic Classification of Earthworms  
Drilosphere  
Physical effects of Earthworms on soils  
Chemical effects of Earthworms on soils  
The effect of absence of Earthworms in soils

## 3. PHYLUM ANNELIDA : EARTHWORM

Earthworms  
Economic Importance  
Pheretima Poshuma  
The Body Wall  
Locomotion  
The Coelom  
The Digestive System  
Food and Digestion  
Respiration  
Excretory Organs  
Physiology of Excretion  
Chloragogen Cells  
Vascular System  
The nervous system  
Working of the Nervous system  
Receptor Organs  
Generative Organs  
Copulation  
Fertilization and Cocoon Formation  
Classification

## 4. EARTHWORMS : LIFE CYCLE

Life cycle studies  
Life cycle patterns  
Life cycle-Lampito mauritii  
Cocoons  
Juveniles  
Non-clitellates  
Clitellates  
Life Cycle-Perionyx excavatus  
Cocoons  
Juveniles  
Non-clitellates  
Clitellates  
Doubling Time  
Biochemical changes during growth

## 5. EARTHWORMS: FOR CULTURE

Worms for Vermiculture  
Earthworm Breeding  
Vermicompost  
Collecting local earthworms

## 6. WHY VERMICOMPOSTING

Fertilizers use and deterioration of Soil Environment  
Testing the impact of Vermicomposting  
Nitrogen and Humification in Vermicomposting  
Vermicompost - a quality manure  
Recycling of wastes through Vermi-composting  
Minimizing Pollution Hazard  
Providing growth promoters  
Vermicomposting : Advantages  
Black gold (worm castings) from worms  
Adverse Effects on Crops  
Economic Viability

## 7. VERMICULTURE AND VERMITECH

How to Start Vermiculture  
Preparation of Vermibeds  
Setting Up of a Vermiwash Unit  
An Enterprise  
Economics of Vermitech (In Indian Rupees)  
Construction and maintenance of a Twin Unit System Marketing

## 8. VERMICOMPOSTING MATERIALS

Animal dung  
Agricultural waste  
Forestry wastes  
City leaf litter  
Waste paper and cotton cloth etc.  
City refuse  
Biogas slurry  
Industrial wastes  
Feeding Vermicomposting Materials  
What should not be Fed to Earthworms?  
How much Earthworm Eat  
How to Feed Earthworm?  
Vermicomposting : Types  
Small scale or Indoor Vermicomposting  
Large scale or outdoor Vermicomposting  
In-situ culturing of earthworms  
Simple promotion of vermic activity in fields  
Development of Earthworms in Gardens and Orchards  
Large Scale Commercialized Vermicomposting in Open Heaps  
Vermicomposting : Requirements  
Environmental Requirements  
Air (Aeration)  
Moisture Content  
Temperature

How to Construct a Worm Bin  
Bedding Materials  
Other Requirements  
Container  
Containers : Types  
Small Barrel or Drum Composter  
Large Barrel or Drum Composter  
Three-chambered Bin  
Making of three-chambered bin  
Bedding Material  
Ideal Conditions for Life of Earthworms  
Food for Worms  
Adding Food Waste  
Proper Ingredient Mixture  
Browns  
Greens  
Particle Size  
Fertilizer and Lime  
pH  
Other Factor Affecting Earthworm's Growth  
Eathworm and Insects  
Tilling and Earthworm Population  
Earthworm and come Drounding  
Maintaining the Bin  
Harvesting the Compost and Worms  
General Problems in Production of Vermicomposting Remember

## 9. EXPERIMENTS FROM THE FIELD

Earthworms: Their Effect on Plant Growth  
Growing vegetables  
Are Earthworms Alone?  
Effect on soil quality  
Soil loss  
Adverse Effects on Crops  
Impact of Chemicals on Earthworms  
Impact of Heavy Metals  
Earthworms in Food Chains  
Earthworm Parasites

## 10. EARTHWORMS : THEIR APPLICATION IN ORGANIC AGRICULTURE

Organic Method Under Rainfed Conditions  
I. Cultivation of groundnut (per acre) (All costs in Indian rupees)  
Cost of Field Preparation  
Net Profit From Both Types of Cultivation (per acre)  
II. Cultivation of brinjal (per acre)  
Net Profits from both Types of Cultivation (per acre)  
III. Cultivation of Okra (per acre)  
Net profit From Cultivation  
IV. Cultivation of Paddy  
V. Cultivation of sugarcane

## 11. WAYS TO MAKE COMPOST

Selection of Suitable Species

Epiges (*Eisenia foetida*)  
Endoges (*Eudrilus eugeniae*)  
Aneciques  
Basic Characteristics of Suitable Species  
Composting Material : Preliminary Treatment  
Vermicomposting Schemes  
Maintenance of Vermicomposting Beds  
Scheme One  
Scheme Two  
Scheme Three  
Scheme Four  
Scheme Five  
Scheme Six  
Harvesting the Worms and Compost  
Using Worm Compost  
Vermicomposting Efficiency  
Transportation of Live Worms  
Vermicompost : Applications  
Flower or Garden pots  
In Horticulture  
In Agriculture  
Vermicomposts : Characterization  
Vermiwash  
Problems in Using Vermiwash  
Earthworm Paste  
Vermicomposting : General Procedure at Home  
Vermicomposting : General Procedures at Agricultural Farms Vermicomposting : Kiss Plan  
Advantages of KISS Plan  
Step 1: Windrow Preparation  
Important Considerations  
Step 2: Extending the Windrow  
Step 3: Making Quality Castings  
Step 4: Moisture and Irrigation  
Step 5: Windrow Cover  
Step 6: Harvesting  
Earthworms Predators and Parasites  
Mite pests in Earthworm Beds  
White or Brown Mites  
Red Mites  
Mite Prevention  
Removal of Mite  
Parasites and pathogens

## 12. EARTHWORMS : END USES AND POTENTIAL

Earthworms in Medicine  
Earthworms as Feed  
Economic potential  
Legal constraints  
Conclusion

## 13. EARTHWORMS : END USES AND POTENTIAL

The Future  
Sampling Methods

Hand Sorting

Principle

Materials

Procedure

Washing and Sieving

Principle

Materials

Procedure

Use of Chemical Repellants

Principle

Materials

Procedure

Electrical Methods

Principle

Materials

Procedure

Trapping Methods

Materials

Procedure

Other Method

Flotation

Heat Extraction

Number of Casts

Measurement of Earthworm Biomass

Storage and Identification

Storage

Identification

#### 14. VERMICOMPOSTING: A WORLD SCENARIO

Grace McKellar Centre, Geelong, Victoria, Australia

Hobart City Council, Tasmania, Australia

National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, United States

Newcastle City Council, New South Wales, Australia Oregon Soil Corporation, Beaverton, Oregon, United States

Pacific Southwest Farms, Ontario, California, United States

Resource Conversion Corporation/Canyon Recycling, San Diego, California, U.S.

Rideau Regional Hospital, Perth, Ontario, Canada

San Quentin Prison, California

Seattle Kingdome Stadium, Seattle, Washington, United States Sovadec, La Voulte, France

Vermiculture Production Center, Pinar del Rio Province, Cuba Vermicycle Organics, Inc., Charlotte, North Carolina, United States

India

Green Cross Society of Mumbai, India

Indian Aluminum Co. Ltd, Belgaum, India

M.R. Morarka - GDC Rural Research Foundation, Jaipur

#### 15. ROLE OF EARTHWORMS

In sustainable Agriculture

Organic Farming

Earthworms Activities

Soil Fertility and Texture

Soil Aeration

Water Impercolation

## Decomposition and Moisture

### 16. VERMITECHNOLOGY

Definition

History

In Other Countries

In India

### 17. ADVANTAGES OF VERMICULTURE

Production of Cheap Animal Protein

Vermi Cast

Soil and Vermi Cast

Earthworm Inoculation in Soil

Decomposition of Bio-Degradable Wastes and Vermicomposting

Vermiculture in Pollution Abatement

### 18. VERMICULTURE

General and Planning

Selection of Suitable Species

Basic Characteristics of Suitable Species

Description of Suitable Species

Family : Lumbricidae

1. *Bimastos parvus* (= *Allolobophora* (*Bimastosparvus* Eisen)

2. *Eisenia foetida* (Sav.)

Family : Eudrilidae

1. *Eudrilus eugeniae* (Kinb.)

Family : Megascolecidae

1. *Lamptio mauritii* (Kinb.)

2. *Metaphire anomala* Mich. (= *Pheretima anomala*)

3. *Metaphire posthuma* (= *Pheretima posthuma*)

4. *Perionyx excavatus* E. Perr.

5. *Perionyx sansbaricus* Michaelson

Family: Octochaetidae

1. *Octochaetus* (*Octochaetoides*) *surnensis* Mich.

2. *Ramiella bishambari* (Steph.)

Sub-family : Diplocardinae

1. *Dichogaster bolau* (Mich.)

2. *Dichogaster affinis* (Mich.)

3. *Dichogaster curgensis* (Mich.)

4. *Dichogaster saliens* (Bedd.)

5. *Ramiella bishambari* (Steph.)

6. *Erythraeodrilus suctorius* (Steph.)

7. *Ocnerodrilus* (*Ocnerodrilus*) *occidentalis* (Eisen.) Family : Moniligastridae

1. *Moniligaster perrieri* (Mich.)

2. *Drawida willisi* (Mich.)

Maintenance of Base Culture

### 19. VERMICOMPOSTING

General

Advantages of Vermicomposting

Vermicomposting Materials

Preliminary Treatment of Composting Material

Small Scale or Indoor Vermicomposting

Large Scale or Outdoor Vermicomposting  
Other Types of Vermi-Composting  
Requirement for Vermicomposting  
Feed for Earthworms  
Vermicomposting Schemes  
Maintenance of Vermicomposting Beds  
Vermicomposting Efficiency  
Collection of Vermicompost  
Transportation of Live Worms  
Marketing Outlets

## DIRECTORY OF VERMICULTURE RESOURCES

## About NIIR

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