

## Need of awareness of zero waste farming in sustainable goals and in the Indian economy

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### Abstract:

*Farm waste is an important and neglected issue in rural development. Techniques need to be used for proper handling of these farm wastes. While this may seem difficult on a split level, it is not impossible. The authors of this research paper address the problem of farm waste in India. The main objective of this case study is to create awareness about the types of farm waste, its effective segregation, its recycling medium, as well as new product creation. From an evolutionary point of view, this demonstrates the benefits of improved farm waste management to reduce farm waste pollution. Effective public awareness in the aforementioned dissertation emerges as a model that drives new startups in the field of agriculture.*

### Keywords:

*Farm Waste, Awareness, Types of Farm Waste, Small scale manufacturing units*

### Introduction:

Bherdapur is a village in Shrirampur taluka of Ahmednagar district in the Indian state of Maharashtra. It is in Khandesh and North Maharashtra region. It is in Nashik division. The total geographical area of the village is 1613 hectares. The total population of Bherdapur is 4,166 and there are 859 families.

There is no record of farm waste. The composition of farm waste is classified into three groups: compostable, recyclable and inert. According to the survey, farmers either burn all the farm waste or fill it with soil. The village grows local vegetables, sugarcane, wheat, cotton, sorghum, millet and fruits.

These include vegetable waste, fruit waste, mulch, peat, post-sowing sticks, fodder, crop drip tubes, plastic wrap wrapped in orchards, plastic tarpaulins, and other used plastic waste. In this village. According to the survey, farm waste is not used for by-products.

Considering the income generated from available raw materials, various farm wastes and the needs of the industry, there is ample scope for starting

new industries in this sector. For this research, it is very important to create awareness in Indian villages about the production of farm waste. The government provides grants and training for agricultural sources of income and farm waste production, but awareness of farm waste management in rural areas appears to be neglected.

### Objective of the Study:

1. To study the types of agricultural waste.
2. To study production from agricultural waste.
3. To study awareness about the value of farm waste in rural areas.
4. To study the scope of new business opportunities in agricultural waste flow.

### Scope of the Study:

1. The study seeks to include a system for raising awareness of farm waste recycling in rural areas.
2. The study focuses on recycled farm waste by these recycling units. Other waste recycled by these units is not included in this study.
3. Technical study of field waste processing will not be considered.

### Statement of the Problem:

How to boost economy through production from farm waste?

### Hypothesis:

1. All farm waste items properly reused
2. All Farm Waste Items have enough recycling awareness.

### Research Methodology:

The researcher used qualitative and quantitative research methods. The researcher used systematic review to compile material through research materials.

**A) Preliminary information:** The researcher selected Bherdapur village from Shrirampur, Ahmednagar to collect preliminary information. Based on the survey, the researcher developed a research strategy to gather information. The researcher used the questionnaire method, in-depth interview.

**b) Secondary data:** Secondary data collected from various published sources of various

government departments, other agencies and municipal authorities. And the secondary collection uses online published, published articles, magazines, books and private recycling units published and unpublished data as well as government published and unpublished data.

**Contents of Research:**

**1. Data Collected from 100 Farmers:**

- a. 25 farmers who said that they used to grow sugarcane regularly, 10 farmers said that they digest sugarcane waste and the remaining 15 farmers said that they burn it.
- b. 10 farmers cultivate fruits. Everyone said that fruit waste is only used for burying in the field.
- c. 45 farmers where took weat, jwar, bajara, soyabin, cotton, tur, mug etc crop. Out of 45

farmers all farmers used this waste for landfill or inert or used for animal food.

d. 20 farmers where took local vegetables crops and most of all waste used for landfill.

According to statistics, 5 farmers are aware of farm waste recycling, while the remaining 95 farmers are unaware of farm waste recycling. It was also found that the total farm waste was not statistically calculated. Researchers found that vegetable waste, fruit waste, leaf waste, digestion, post-sowing thorns, fodder, crop plastic drip pipes, plastic wrapped in orchards, plastic tarpaulins and other used plastic waste are the major types of agricultural waste.

**Table No. 1.1 Market Product of Farm waste items**

Farm waste Items	Production	Farm related waste Items	Production
Vegetable waste	Composting	plastic drip tubes used on plants	Granules, Reuse and recycle
fruit waste	Floor Cleanser, Beauty Products	Plastic paper wrapped in orchards	Granules, Reuse and recycle
Pala pachola	Vermi composting, food plates, dhoop kadi, Mosquito coil	Plastic tarpaulin,	Granules, Reuse and recycle
pachat	food plates, dhoop kadi,	plastic items	Granules, Reuse and recycle
sticks after sowing	Card sheet, single use Plates	Rafiya, Jute, Gunny Bags	Granules, Reuse and recycle
fodder	Paper bags	Cotton- Clothes	Granules, Reuse and recycle

**Conclusion and Recommendation:**

**Conclusion:**

- 1. **Segregation Quality:** The segregation process in agriculture needs to be strengthened so that at the decentralization level all farm waste will come into the processing unit effectively.
- 2. **Market valuation:** Knowing the value of waste raises awareness among farmers about the production of farm waste and then automatically transforms waste into useful tools.

**Recommendation:**

- 1. There is a need to create awareness in Indian villages about the importance of farm waste.
- 2. There is a need to set up a center at the village level for awareness of agricultural waste.
- 3. There is a need to increase the number of small scale industries for processing agricultural waste.
- 4. New business model needs to be introduced for unused farm waste.

- 5. New trends are needed in the farm waste recycling industry as well as converting traditional concepts from a business perspective.

**References:**

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