

sasmira

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AGROTEXTILE - VERMIBED

Vermibed

The Laminated Multilayer Portable Textile Fabric based Vermicompost Bed, a cutting-edge solution redefines vermicomposting with its versatile design and advanced features, empowering users to harness the benefits of nutrient-rich compost in an efficient manner. In the world of sustainable agriculture, vermicompost beds stand as a leading solution for nutrient-rich organic farming.



1. Portable and Versatile Design

Features

- Engineered from a laminated multilayer UV stabilized textile fabric for enhanced durability.
- Portable structure allows for easy relocation based on the specific needs.
- Designed for efficient vermi wash collection.

Benefits

- Adaptable to various farming setups and spaces.
- Ideal for both small-scale and large-scale farming operations.

2. Multilayer Textile Fabric Construction

Features

- Multilayered textile fabric ensures structural integrity and longevity.
- Laminated for increased resistance to environmental factors.

Benefits

- Enhances the bed's ability to withstand weather conditions.
- Extends the lifespan of the vermicompost bed.

3. Efficient Vermicomposting

Features

- Designed to optimize the vermicomposting process.
- Facilitates effective waste breakdown and nutrient extraction.

Benefits

- Accelerates compost production for quicker availability.
- Maximizes the yield of nutrient-rich vermicompost.

4. Adaptable Size and Configuration

Features

- Available in various sizes and configurations to suit diverse farming needs.
- Customizable to fit specific crop or space requirements.

Benefits

- Tailored to meet the vermicomposting demands of different crops.
- Offers flexibility in adjusting the size based on available space.

5. Easy Handling and Maintenance

Features

- Lightweight design facilitates easy handling and transport.
- Low-maintenance requirements.

Benefits

- Simplifies bed management and relocation.
- Reduces the time and effort needed for upkeep.

6. Eco-Friendly and Sustainable

Features

- Environmentally conscious construction from textile materials.
- Aligns with sustainable manufacturing practices.

Benefits

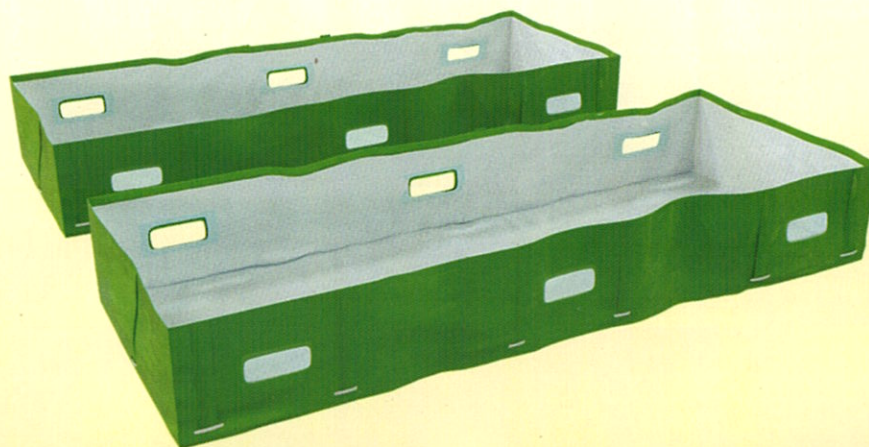
- Reduces the ecological footprint of vermicompost bed usage.
- Promotes eco-friendly and responsible agricultural practices



Vermibed vs Cement Pit

Vermibed emerge as a superior choice for modern and cost-effective organic farming. Vermicompost bed offer a budget-friendly alternative with significantly lower initial cost than constructing cement pit. Its portable nature allows easy relocation, catering to changing agricultural needs or spatial constraints. Additionally, vermicompost beds are highly customizable, available in various sizes and configurations to fit specific requirements or available space. In contrast, cement pit, while durable, may incur higher upfront expenses and lack the adaptability and versatility that vermicompost bed bring to the table. Overall, Vermibed stand as a more economical, portable, and customizable solution for farmers embracing sustainable and efficient vermicomposting production.

The concept of Vermibed has not only captivated the attention of traditional farmers but has also attracted the interest of visionary entrepreneurs. The innovative and sustainable nature of vermicomposting, coupled with the potential for creating nutrient-rich organic fertilizers, aligns seamlessly with the ethos of modern entrepreneurship. Entrepreneurs take vermicomposting bed as an opportunity to contribute to both environmental conservation and agricultural productivity. The scalability, efficiency, and market demand for organic produce make vermicomposting an appealing venture. This growing interest from entrepreneurs signifies a shift towards eco-conscious and economically viable organic manure producing tool, positioning vermicomposting bed as a focal point for those looking to make a positive impact on both agriculture and the environment.



BIS Standard for Vermibed Bed

At CoE Agrotech, we take pride in contributing to the development and standardization of Agrotextiles. Our commitment to quality is reflected in a comprehensive set of 24 Agrotextile standards, developed in collaboration with the Technical Committee TXD35 under the Bureau of Indian Standards (BIS). This committee, chaired by CoE Agrotech, comprises industry experts, academicians, agriculturists, and BIS officials. These standards serve as a benchmark, ensuring that Agrotextile products meet rigorous criteria for performance, durability, and safety.

Bureau of Indian Standards (BIS) has developed standard for vermibed made from HDPE woven fabric.

Specification of Vermibed made from HDPE woven fabric

Sl No. (1)	Characteristic (2)	Requirements (3)
i)	Mass, g/m ² , <i>Min</i>	340 (<i>see 6.1</i>)
ii)	Breaking strength before UV exposure, N, <i>Min</i>	1 900 (Warp) 1 300 (Weft) }
iii)	Elongation at break, percent	20 ± 5
iv)	Retention of breaking strength after UV exposure, N, <i>Min</i>	85 percent of original actual value (fabric)
v)	Welded seam strength before UV exposure, N, <i>Min</i>	65 percent of original actual value (fabric)
vi)	Welded seam strength after UV exposure, N, <i>Min</i>	85 percent of original actual value
vii)	Tear strength, N, <i>Min</i>	100 (Warp) 100 (Weft) }
viii)	Puncture strength, N, <i>Min</i>	325
ix)	Environmental stress cracking test	There shall be no evidence of stress cracking
x)	Resistance to chemicals, change in the mass, percent, <i>Max</i>	0.1 percent
xi)	Colour fastness to artificial light ¹⁾	4 or better
xii)	Bursting pressure, kgf/cm ² , <i>Min</i>	35

¹⁾ Applicable for coloured beds only.

Opting for a BIS compliant Vermibed brings several advantages, ensuring a reliable and high-quality solution for organic farming. Here are compelling reasons to choose a BIS compliant vermicompost bed:

1. Quality Assurance

- **BIS Standards:** BIS standards are established to ensure that products meet specific quality benchmarks.
- **Benefits:** A BIS compliant vermicompost bed undergoes rigorous testing, assuring users of its quality and performance.

2. Durability and Longevity

- **BIS Standards:** Compliance includes parameters for material strength, durability, and structural integrity.
- **Benefits:** BIS compliant vermicompost beds are designed to withstand environmental stressors, ensuring a longer lifespan.

3. Optimal Vermicomposting Conditions

- **BIS Standards:** Compliance may involve factors such as aeration, drainage, and design for effective vermicomposting.
- **Benefits:** User can trust that the bed provides optimal conditions for efficient vermicomposting, maximizing compost yield.

4. Consistency in Performance

- **BIS Standards:** Standards ensure that each BIS compliant vermicompost bed meets uniform performance criteria.
- **Benefits:** User can expect consistent and reliable results across different batches or brands that adhere to BIS standards.

5. Confidence in Investment

- **BIS Standards:** Compliance is a mark of quality, instilling confidence in the investment made by farmers.
- **Benefits:** User can trust that their investment in a BIS compliant vermicompost bed is well-placed and aligned with industry-recognized standards.

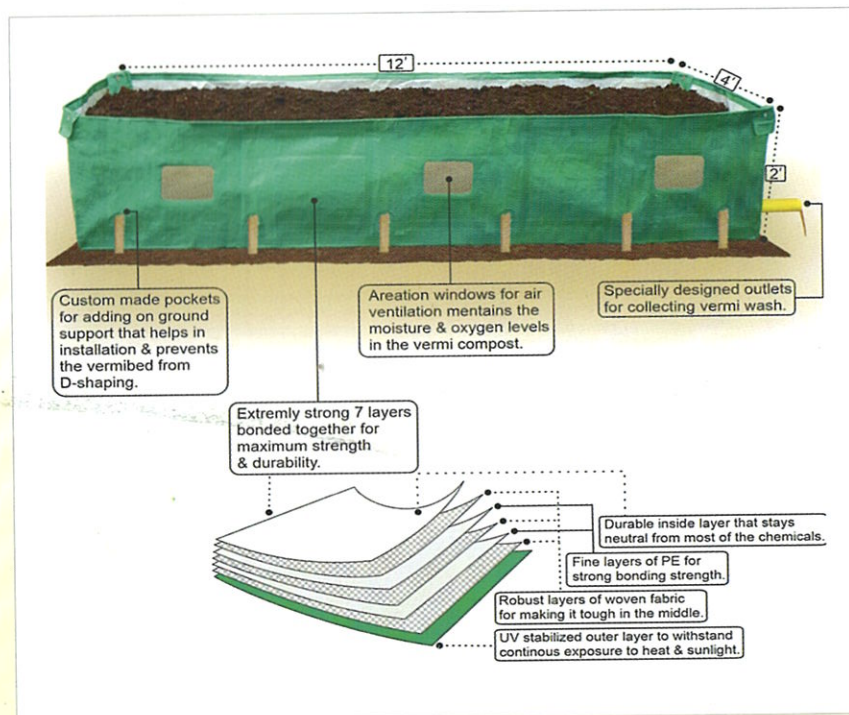
6. Adherence to Regulatory Standards

- **BIS Standards:** Compliance ensures adherence to national regulatory standards for Agrotexile products.
- **Benefits:** Farmers can be assured that their vermicompost bed aligns with legal and safety requirements.

In summary, choosing a BIS compliant vermicompost bed is a strategic decision that combines quality assurance, environmental responsibility, and adherence to industry standards. It reflects a commitment to sustainable organic manure production practices and ensures that end user receives a reliable and efficient solution for their vermicomposting needs.

For Guidance

For guidance on manufacturing vermibed or its applications reach out to CoE-Agrotech, SASMIRA.



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