

Vermicompost

Exporting Countries

- **India**
- The undisputed global leader, accounting for approximately **69% to 85%** of global shipments.
- **Vietnam**
- The second-largest exporter, capturing roughly **12% to 13%** of the market share.
- **Indonesia**
- A major regional supplier, holding about **7% to 8%** of global exports.
- **Turkey**
- Frequently cited as a top 5 exporter, experiencing growth due to the global shift toward organic farming.
- **Sri Lanka**
- A significant South Asian supplier and often ranked among the top exporting countries

Secondary Exporter

- **Asia:**
 - Uzbekistan
 - Philippines
 - Nepal
 - Malaysia
 - Bangladesh
 - Thailand
- **Europe:**
 - Italy
- Russia
- Germany
- Netherlands
- **Americas & Others:**
 - Canada
 - Mexico
 - Kenya
 - United States

Importer Countries

- **United Arab Emirates (UAE)**: The largest importer, sourcing primarily from India, Vietnam, and Indonesia.
- **Maldives**: A major destination for Indian vermicompost.
- **USA, Canada, Europe, Japan**: Prime markets for organic, sustainable fertilizers
- **Primary Destinations**: The largest markets for these exports are the United Arab Emirates (41% of global imports), the Maldives and the United States
- **Growth Driver**: The global organic fertilizer market is projected to reach approximately **\$10.4 billion** by 2025, driven by the demand for sustainable agriculture

India top exporter companies

- Sikri Farms (Haryana): A major, award-winning manufacturer and supplier of premium vermicompost for commercial farming and export.
- Agile India Exports (Rajasthan): Known for exporting high-grade, organic, and eco-friendly compost.
- Goodness Organic (Rajasthan): A prominent manufacturer and exporter of organic vermicompost and manure.
- Aum Agri Solutions (Maharashtra): A key exporter, often listed among top providers in international market data.
- Earth Eco Biotech Overseas (Rajasthan): Specializes in bio-organic products and vermicompost for international markets.
- Kashi Organic Global Exporters (Uttar Pradesh): Engaged in the production and export of quality vermicompost.
- Prince Organic Bio Fertilizer (Maharashtra): Manufactures and exports superior quality, nutrient-dense vermicompost

Price of Vermi in India

- **Bulk Rates (50 kg+):** Often range from ₹5 to ₹12 per kg for industrial/large-scale agricultural use.
- **Export-Grade:** Ranges from ₹25 to ₹30+ per kg (FOB).
- **Processed/Premium:** High-quality, refined powder can cost ₹30 to ₹50 per kg.
- **Per Tonne Pricing:** Ranges from ₹6,000 to ₹10,000 per ton depending on the supplier and quality

Exporting price range

- **Bulk Agricultural Grade:** Typically priced between **\$200 and \$350 per ton** for large-scale bedded systems.
- **Premium/Commercial Grade:** Continuous flow (CFR) or specialized bin systems range from **\$300 to \$600 per ton**.
- **Liquid Vermicompost (Worm Tea):** High-value concentrates can reach equivalent prices of **\$800 to \$1,200 per ton**.
- **Small Quantity Export:** Indian and Pakistani exporters often list prices around **\$0.23 – \$0.35 per kg** for minimum order quantities (MOQ) of 5 to 15 tons
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Companies of Vermicompost in Pakistan

- **Kissan Vermicompost (vermicompostpakistan.com)**: A prominent supplier offering red wiggler worms, vermicompost beds, and consultancy for setups.
- **Ibrahim Farms (ibrahimfarms.com)**: Produces high-quality, organic vermicompost using red wiggler worms and offers nationwide delivery in Pakistan.
- **Hara Organics (bagh.pk)**: Known for producing premium natural and organic fertilizer (40KG bags) using Eisenia Fetida worms.
- **Organic Greener**: Based in Karachi (Federal B Area), specializing in organic fertilizers.
- **Planta.pk**: A nursery and garden store in Multan that supplies vermicompost and offers nationwide delivery.
- **IR Farm (irfarm.com)**: Located in Sargodha, providing vermicompost and vermicompost tea.
- **Mik Vermicompost Pvt Ltd**: A supplier based in Karachi.

SOP of vermi compost worldwide

- **Appearance:** Dark brown, granular, or powdery material, often described as resembling coffee grounds or peat.
- **Moisture Content:** The ideal moisture content is generally maintained between **50% and 65%**. It must be moist, but not saturated, to allow for proper handling and to support microbial/worm activity.
- **Structure:** It should be a fine, homogeneous, and well-sieved material, typically sieved through a 3 mm sieve.
- **Odor:** Finished, stable vermicompost has an earthy, humus-like smell, free from any putrid or ammonia-like odor

- **pH:** The optimal range is slightly acidic to neutral, typically **6.0 to 8.5** (or specifically 6.5–7.5 in many agricultural guidelines).
- **Carbon to Nitrogen Ratio (C/N):** A critical indicator of stability, high-quality vermicompost should have a C/N ratio **less than 15** (often between 10–12), indicating a high degree of humification.
- **Nutrient Content (Total):**
 - **Organic Carbon:** 9.15% to 34% (varies by substrate).
 - **Total Nitrogen (N):** 1.5% to 3.0%.
 - **Total Phosphorus (P):** 1.0% to 2.25%.
 - **Total Potassium (K):** 0.6% to 2.25%.
- **Nutrient Availability:** Vermicompost has a high concentration of water-soluble nutrients, with higher levels of nitrate-nitrogen (NO_3 -N) compared to ammonium-nitrogen (NH_4 -N).
- **Heavy Metals:** Must be below the threshold limits defined by local or international standards (e.g., French standard NF U44-051) to prevent contamination. 

3. Biological & Sanitary Criteria

- **Pathogens:** High-quality vermicompost is largely free from pathogens. It should have a fecal coliform count of **less than 1000 MPN/g** of solid dry weight.
- **Maturity (Stability):** It must be fully matured and stable, ensuring no phytotoxicity (negative effects on plants).
- **Microbial Activity:** Contains a high, diverse, and active population of microorganisms (actinomycetes, beneficial bacteria) and plant growth regulators (auxins, gibberellins).
- **Water Holding Capacity:** 90% of its aggregates are water-resistant, allowing it to hold significantly more moisture than soil. 

4. Safety Criteria

- **Weed Seeds:** The vermicomposting process, when managed correctly, eliminates or significantly reduces the viability of weed seeds in the final product.
- **Foreign Materials:** The product should be free from non-degradable materials such as plastic, glass, and stones. 

Export quality requirement

- Export-quality vermicompost must be dark brown, earthy-smelling, fine-textured, and free from contaminants like plastic, stones, or pathogens. Key requirements include 60–70% moisture content, 6.5–7.5 pH, and high nutrient levels (N: 0.8–3.0%, P: 0.5–1.7%, K: 0.5–1.6%). Essential certifications include organic, lab analysis reports (heavy metals), and phytosanitary certificates, packaged in 25-50kg breathable bag
- **Physical Properties:** Fine-textured, granular appearance, dark brown to black color, and odor-free.
- **Contaminant Level:** Very low, typically less than 0.5–1.0% by weight of inert materials.
- **Nutrient Content:** High nutrient concentration, particularly NPK (Nitrogen, Phosphorus, Potassium), and rich in micronutrients.
- **Moisture Content:** Strictly maintained at 60–70%.
- **Stability:** Fully matured and stable, ensuring no further decomposition or odor issues

- **Lab Analysis Report:** Detailed testing for nutrient levels, pH, and heavy metals.
- **Microbial Report:** Evidence of beneficial soil microbes.
- **Organic Certification:** Crucial for organic farming markets, ensuring it is made from allowed feedstocks.
- **Phytosanitary Certificate:** Often required by the importing country to ensure freedom from pests

Reference of Vermi Compost SOP

- [https://www.mdpi.com/2071-1050/18/1/298#:~:text=Conducted%20under%20the%20KOP%20DTEYAP,agroecological%20strategy%20for%20rural%20development. \(MDPI\)](https://www.mdpi.com/2071-1050/18/1/298#:~:text=Conducted%20under%20the%20KOP%20DTEYAP,agroecological%20strategy%20for%20rural%20development.)
- [https://www.researchgate.net/publication/344542551_Global_trends_and_characteristics_of_vermicompost_research_over_the_past_24_years#:~:text=the%20following%20properties,Scientists%20are \(Researchgate\)](https://www.researchgate.net/publication/344542551_Global_trends_and_characteristics_of_vermicompost_research_over_the_past_24_years#:~:text=the%20following%20properties,Scientists%20are)
- [https://link.springer.com/article/10.1007/s13593-022-00819-y#:~:text=The%20objective%20of%20this%20review,soil%20fauna%20abundance%20and%20diversity. \(Springer article\)](https://link.springer.com/article/10.1007/s13593-022-00819-y#:~:text=The%20objective%20of%20this%20review,soil%20fauna%20abundance%20and%20diversity.)

How to store vermi compost

- Store vermicompost in breathable, non-airtight containers like plastic totes with holes, burlap sacks, or buckets with lids slightly ajar to maintain aerobic conditions, keeping it moist (like a wrung-out sponge) but not waterlogged. Place in a cool, dark, and shaded area, preventing it from drying out completely to keep beneficial microbes active.
- <https://www.redwormcomposting.com/reader-questions/storing-vermicompost/>
- <https://www.naturesfootprint.com/pages/storing-vermicompost>

- **Provide Shade:** Place your storage containers in a **cool, dark, and shaded area**—such as under a tree, on a north-facing porch, or inside a shed. Direct sunlight can rapidly dry out the compost and kill essential microorganisms.
- **Protect from Rain:** Use a **tarp, plywood, or a secure lid** (not sealed) to shield the compost from rainfall. Heavy rain will wash away valuable nutrients and can drown any remaining worms or cocoons.
- **Manage Temperature:** Ideal storage temperatures are between **55–80°F (13–27°C)**. In extreme winter, insulate bins with blankets or straw; in summer, use shade cloths or even frozen water jugs inside the bin to prevent overheating.
- **Monitor for Pests:** Ensure the storage area is rodent-free. If storing in bags on the ground, use a fine-mesh wire or a berm to keep pests out and prevent nutrient leaching