

AHINSHA BEVERAGES PRIVATE LIMITED

Manufacturer of Instant Tea • Black Tea Extract • Green Tea Extract (HWS/CWS) • Tea

FSSC 22000 CERTIFIED UNIT

SUPPLY OF DECAFFEINATED DECOMPOSED TEA WASTE (DDTW)

High-grade, eco-friendly organic manure from decaffeinated tea waste

Subject Supply of Decaffeinated Decomposed Tea Waste (DDTW)

Dear Sir/Madam,

We are pleased to introduce Decaffeinated Decomposed Tea Waste (DDTW), a high-grade, eco-friendly organic manure manufactured from decaffeinated tea waste. DDTW is intended for use in nurseries, young plantations and mature plantations, and may also serve as a substitute for certain ingredients used in organic-manure production.

Product Highlights

- Rich in essential plant micro- and macronutrients.
- Helps improve soil structure and water-holding capacity.
- Helps check soil erosion.
- Has been tested in tea, paddy and banana fields, coconut groves, and fruit and vegetable farms.
- Can be used as a raw material for vermicompost manufacturing.
- Suitable for mushroom cultivation.
- Widely used by tea-garden industries.

WHY DDTW?

The source material describes DDTW as a balanced source of primary, secondary and micronutrients and as an organic-matter option where conventional organic inputs such as cow dung, oil cakes and gypsum may be scarce for large-scale use.

We are in a position to supply DDTW on a regular basis at a competitive price. We would be pleased to provide samples against specific requirements and look forward to establishing a successful business relationship with your esteemed organization.

Thanking you,

Consultant: Dr. Prashant Dutta

Ex. Tocklai, Contact: +91 9435350204

Yours faithfully,

**For, Ahinsha Beverages Pvt. Ltd.
Director**

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DDTW — PRODUCT PROFILE

Decaffeinated Decomposed Tea Waste

THE ECO-FRIENDLY NATURAL MANURE

DDTW is presented in the source document as a natural organic-manure material for VP nurseries, young tea plantations and mature tea areas, with additional applications in horticulture and organic-manure production.

Key Benefits & Applications

AREA	SOURCE-DOCUMENT DESCRIPTION
Plant nutrition	Rich in essential plant micro- and macronutrients; described as having a balanced proportion of primary, secondary and micronutrients.
Soil improvement	Helps improve soil structure and water-holding capacity and helps check soil erosion.
Nursery & plantation use	The source document provides specific dosage guidance for VP nurseries, young tea planting, mature tea and rehabilitation areas.
Organic-manure production	Can be used as a raw material for vermicompost and as an ingredient in organic-manure production.
Mushroom cultivation	The source material describes DDTW as suitable for mushroom cultivation.
Agricultural applications	The source document cites use/testing in tea, paddy, banana, coconut, fruit and vegetable farms, as well as horticulture and sericulture units.

Tea Plantation Note

The source material states that decomposed tea waste can be safely used in tea soil and highlights the role of organic matter in maintaining soil properties. It also notes that fresh tea waste may contain high free ammonium ions and can cause root injury in young tea; therefore, the source distinguishes fresh waste from decomposed decaffeinated tea waste.

Dosage Guidance from the Source Document

APPLICATION	DOSAGE / METHOD
VP Nursery Soil	20 g DDTW per sleeve in light and medium-textured soil, mixed with soil before filling sleeves, along with 10 g pyrite / aluminium sulphate. If soil pH is 4.5 or lower, pyrite / aluminium sulphate should not be added.
Young Tea Planting	100–150 g DDTW per planting pit, mixed with soil before planting, along with 30 g pyrite / aluminium sulphate. If soil pH is 4.5 or lower, the latter should be omitted.
Mature Tea	4–5 MT DDTW per hectare, along with required quantities of NPK in single or split dosage according to the estate's manuring policy, in every unpruned year.
Rehabilitation Area	4–5 MT DDTW per hectare during land preparation before planting, with 100–120 kg pyrite / aluminium sulphate where soil pH is above 5.5.

IMPORTANT

The dosage values above are reproduced from the supplied source document. Soil pH, crop conditions and local agronomic recommendations should be considered before field application.

PREPARATION PROCESS

Powdered organic-manure preparation using tea waste

Process Steps

STEP	ACTIVITY	DESCRIPTION
01	Prepare & mix raw materials	Ensure the listed raw materials are in powdered form and mix them thoroughly.
02	Prepare bacterial solutions	The source specifies dilution of each individual bacterial culture in water and spraying over the prepared mixture. The source text indicates 1 litre culture diluted in 9 litres of water, with a total spray quantity noted as 40 litres.
03	Air-dry	Air-dry the prepared manure until the finished product reaches approximately 30% moisture.
04	Incubate & pack	Incubate the prepared material for at least 3–5 days and then proceed with packing.

Raw Materials Listed in the Source

- Tea waste — prepared, dried and ground
- Cow dung — prepared, dried and ground
- Rice husk ash
- Master cake
- Azolla plant or water hyacinth — dried and ground
- Strain I — 1 litre in 10 litres of water
- Strain II — same dilution
- Strain III — same dilution
- Strain IV — same dilution

Source-Provided Formulation

The original document lists the following quantities under “For 100 kg Finished Organic Manure.” The quantities are reproduced as supplied and should be technically validated before commercial production.

NO.	COMPONENT	QUANTITY
1	Tea waste	100 kg
2	Cow dung	30 kg
3	Rice husk ash	1 kg
4	Master cake	20 kg
5	Azolla plant / water hyacinth	20 kg
6	Strain I — bacteria for N ₂	1 litre
7	Strain II — bacteria for K	1 litre
8	Strain III — bacteria for P	1 litre
9	Strain IV — bacteria for cellulose degradation	1 litre
10	Cow urine / vermi liquid	5 litres

INSTANT PROCESS FOR ORGANIC MANURE

Preparation method based on the supplied source document

Raw Materials

- Tea waste (dry & decaffeinated)
- Cow dung (well decomposed)
- Water hyacinth (dry & chopped)
- Master cake (dry)
- Cow urine
- River sand
- Rice husk cereal (10/100)
- Bacterial strain 2 (N₂)
- Bacterial strain 2 (P)
- Bacterial strain 2 (K)
- Fungal strain — cellulose degrader

TIME DURATION

The source document specifies an overall duration of approximately 3.5 months for this preparation method.

Layered Preparation / Bed Arrangement

STAGE	SOURCE-SPECIFIED LAYER / ACTION
Top / Spray	Spray with K-soluble liquor (Strain 4)
Layer 1	1.5 ft cow dung + soil
Layer 2	1.5 ft tea waste
Layer 3	6 in. master cake
Spray	Spray with phosphate-soluble liquor (Strain 3)
Layer 4	1 ft water hyacinth
Layer 5	1.5 ft tea waste
Spray	Spray with N ₂ -fixing culture (Strain 2)
Layer 6	6 in. master cake
Layer 7	1 ft cow dung
Layer 8	6 in. master cake
Spray	Spray with cellulose degrader (Strain 1)
Layer 9	1.5 ft tea waste
Layer 10	6 in. cow dung
Spray	Spray with cellulose degrader (Strain 1)
Base / Cover	Polythene sheet
Final layer	6 in. cow dung
Base layer	3 in. river sand

TECHNICAL REFERENCE & COMPANY PROFILE

DDTW — Decaffeinated Decomposed Tea Waste

Reference Mentioned in the Source

The supplied document states that a report regarding the value of decaffeinated decomposed tea waste as organic manure in tea plantations can be submitted on specific requirement. It attributes the report to the 32nd Tocklai Conference and cites the Tea Research Association, Tocklai Experimental Station, Jorhat – 785008.

Company Information

Company	Ahinsha Beverages Private Limited
Business	Manufacturer of Instant Tea, Black Tea Extract, Green Tea Extract (HWS/CWS) & Tea
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