

BhuKranti – NUTRIPRO BIOCHAR TABLET

★ PRODUCT DESCRIPTION:

NUTRIPRO BIOCHAR TABLET — PREMIUM BIO-ORGANIC BIOCHAR FERTILIZER

NUTRIPRO Biochar Tablet is a high-efficiency **Nutrient-Rich organic bio-fertilizer** formulated using **Premium-Grade Biochar**, **Moringa Leaf Powder**, **Neem Cake powder**, **Seaweed Extract Powder**, **Natural Binder** and **Purified Inert Lubricant**.

This Formulation offers **Ultrafine particle size**, **Neutral pH**, **Superlative surface area**, **Organic Nutrients**, **Organic Matter**, **Natural Biostimulants**, **Natural Antioxidants**, **Plant growth Regulator**, **Stress Tolerant**, **Plant Defense Elicitor**, **Natural Biopesticide**, **Controlled release & Precise Dosing mechanism Enhances Soil/Crop/Plant Performance with minimal application effort** & make it **ideal for Precision Agriculture, Horticulture, Plantation/Orchards/Perennial Crops, and Soil Rehabilitation**.

Moringa Leaf powder contributes natural macro- and micronutrients, amino acids, proteins, carbohydrates, fibers, fats, and polyphenols, supporting plant metabolism and growth.

Neem Cake powder supplies Azadirachtin, residual neem oil, and bio-active compounds that promote soil hygiene, root health, and microbial balance.

Seaweed Extract powder provides alginic acid, alginates, fucoidans, polyphenols, abscisic acid, mannitol, amino acids, and natural growth stimulants, enhancing root development, nutrient uptake, stress tolerance, and crop vigor.

The formulation is designed to improve **Soil Fertility**, **Nutrient Efficiency**, **Biological Activity** and **improved crop performance** in a sustainable and residue-free manner.

This formulation undergoes **No Drying or Heat Treatment**, ensuring that all ingredients **remain in their Natural, Bio-Active State**.

This all-supportive properties of products in turn provides **A Stable Habitat For Beneficial Soil Microorganisms**, supporting long-term soil fertility.

Our NUTRIPRO Biochar Tablet is created to address the common shortcomings of traditional biochar forms. Unlike bulky loose biochar or water-mixed and high-temperature-dried compact products (Pellets/Briquetted).

This combination creates a **Precision, High-Efficiency, Environmentally Safe Biochar delivery system**, improving soil health while significantly reducing the required application quantity.

The tablet form delivers **maximum impact with minimal quantity**, making it a superior alternative to traditional loose biochar.

It is designed to enhance:

- **Soil Organic Carbon (SOC) & Organic Matter**
- **Water & nutrient retention capacity**
- **Soil structure & porosity**
- **Beneficial microbial load & activity**
- **Source Of Organic Nutrients (N, P, K, Macro & Micronutrients)**, **Natural Biostimulants**, **Natural Antioxidants**.
- **Soil Health, Root Protection, and Microbial Balance by Suppressing Harmful Soil Organisms**.
- **Supporting Steady Nutrient Release and Improved Nutrient Uptake by Crops**.

Our NUTRIPRO Biochar Tablet's strength lies in its **tablet engineering**:

- **Fine Particle Biochar** provides high reactivity (**Soil Conditioner, Carbon Stabilizer, Nutrient Carrier**)
- **Fine Particle Moringa leaf powder, Seaweed Extract Powder** serves as a natural source of **Organic Matter, Organic - Nutrients (N, P, K, Macro & Micronutrients)**, **Biostimulants**, **Antioxidants**, **Plant growth Regulator**, **Stress Tolerant**, **Plant Defense Elicitor & Support for Beneficial Microbes**.
- **Fine Particle Neem Cake Powder** – Source of **Azadirachtin, Residual Oil & Bio-Active Compounds (Natural Insecticidal/ Natural Biopesticide)**
- **Natural Binder** ensures **controlled release in soil**.
- **Purified inert lubricant** enhances stability and handling **without affecting soil chemistry**.

We treat plants and crops as living beings—just like humans—understanding that they too require balanced nutrition, protection, and a healthy environment to thrive.

With this philosophy, we developed **Biochar & other Supportive active materials in an Innovative Tablet form**, providing one of the most essential components for Soil & Crops health in a clean, compact, and efficient way.

Our NUTRIPRO Biochar Tablet restores soil structure, improves nutrient efficiency, enhances microbial life, and ultimately supports stronger, healthier plant growth.

Just as supplements support human well-being, our biochar tablets act as a long-lasting “health booster” for soil and crops—simple to apply, highly effective, and scientifically optimized.

★ Biochar Action in Acidic Soils =

The naturally occurring **nutrient cations** present in biochar help **stabilize the pH of acidic soils**, contributing to improved soil fertility. Biochar also provides a **mild liming effect**, and its inherent alkaline properties gradually **increase soil pH**, reducing excessive acidity.

By moderating soil acidity, biochar creates a more favorable habitat for **beneficial soil microorganisms**, enhancing microbial activity and supporting efficient nutrient cycling. This results in improved soil health, better nutrient availability, and sustained crop growth.

Additionally, biochar enhances **water-holding capacity**, improves cation exchange capacity (CEC) for better nutrient retention, and stabilizes overall soil structure. These combined effects boost soil fertility, increase nutrient availability, and support stronger, healthier crop growth.

★ Biochar Action in Saline/Alkaline Soils =

Our Pure Biochar formulation has a **nearly neutral pH**, making it unlikely to further increase the pH of already alkaline soils. Instead, its neutral character provides multiple **physical and chemical benefits** that help create a more **stable and fertile environment for plant growth**.

Biochar enhances **soil structure**, improves **nutrient-holding capacity**, and supports balanced **water retention**, all of which are essential in managing alkaline and saline soils. With repeated application, biochar helps **reduce excess sodium (Na⁺)**—the primary cause of soil salinity—through **cation exchange mechanisms**. This gradual reduction of sodium improves soil permeability, reduces compaction, and enhances root development.

These actions contribute to improving the soil's **buffering capacity**, helping stabilize pH and preventing extreme fluctuations that can hinder plant growth and microbial activity.

Our formulated biochar features **very low H/C (Hydrogen/Carbon)** and **O/C (Oxygen/Carbon)** ratios, indicating a highly aromatic structure with excellent **long-term stability**, **high fixed-carbon content**, and superior **carbon sequestration potential**.

Additionally, its **balanced Carbon-to-Nitrogen (C/N) ratio** supports healthy microbial populations by providing sufficient carbon for energy and adequate nitrogen for protein synthesis. This balance prevents nutrient lock-up (immobilization), ensures efficient decomposition, and promotes robust plant growth while enhancing soil biological activity.

★ Technical Specifications/Nutritional Content/Characteristic Analysis (Approximate Values)

Physical Parameters

Parameter	Results
Disintegration Time in water	3 minutes
Disintegration behavior in low water	Swells 3x of original weight & Liquifies
Moisture Content	7.65 %
Bulk Density	0.54 g/cm³
Particle size / Particle size distribution (Powder form)	89% = <0.5 mm 11% = 0.5 – 1 mm
Total Surface Area (Powder form)	<2 to 220 m²/g
External Surface Area (Powder form)	< 2 to 207 m²/g

* Contaminants (Heavy Metals & Organics): Within permissible limits mentioned in IBI/FCO/EBC/WBC

(16 EPA PAH, 8 EFSA PAH, PCBs, PCDD/F, Benzo[E]Pyrene, Aflatoxins, Pesticide residue – Not Detected)

Microbiological Limits

Parameter		Results
Total Plate Count (TPC)		28302 CFU/G
Yeast & Mold		87 CFU/G
Pathogens	E. coli	Absent (FCO complied)
	Salmonella	Absent (FCO complied)
	Pseudomonas aeruginosa	Absent (FCO complied)
	Enterobacter aerogenes	Absent (FCO complied)
	Total Coliforms	Absent (FCO complied)
Total microbial load		28302 CFU/G

Chemical Properties

Parameter	Results
Total Organic Carbon (Corg)	34.8 % (FCO COMPLIED/ IBI Class 2)
Total Carbon (Ctot)	50.4 %
Organic Matter	84 %
pH	7.15
Electrical Conductivity	0.4 dS/m (FCO: <4 dS/m)
Salt Content	1 mg KCl/L
Ash Content	14.19 %
Dry matter	93 %
H/C ratio	0.33 (IBI/EBC: ≤ 0.7)
O/C ratio	0.21 (EBC: ≤0.4)
C/N Ratio	18 (FCO: <20)
Elemental Carbon (C) (Fixed Carbon)	1.3 %
Elemental Hydrogen (H)	3.0 %
Elemental Oxygen (O)	2.4 %
Total N, P, K ⁺	5.3 % , 2.0 % , 2.2 %
Available Nitrogen (ammonium and nitrate), Available Phosphorous	2.3 mg/kg 1.1 mg/kg
Total Ca, Mg, S, Mn, Fe	Ca – 3.9 %, Mg - 0.15 %, S – 0.9 %, Mn- 0.2 %, Fe- 0.11 %
Available Calcium, Magnesium and Sulfate	0.2 mg/kg, 0.10 mg/kg, 3.2 mg/kg
Volatile Matter	7.9 %

* Total K is sufficiently equivalent to available K for the purpose of this characterization (As per IBI guidelines, Ver. 2.1)

Chemical Properties

Parameter	Results
Azadirachtin	0.18 %
Oil content (residual)	1.92 %
Salannin	37.9 mg/100gm
Alginic Acid	2.10 %
Alginate	0.02 %
Fucoidans	16.2 mg/100gm
Polyphenols	6.9 mg CAE/100 g
Abscisic acid	350.8 mg/L
Mannitol	0.005 %
Total phenolics	0.1 g/100gm
Total Sugars	<0.2 %
Amino Acids	0.13 %
Crude Protein	7.97 %
Fat	0.16 %
Carbohydrate	1.52 %
Fibre	4.84 %
Chlorogenic Acid	0.5 %

Performance Tests

Test	Results
Germination Inhibition Assay	No Inhibition (IBI: Complied)
Earthworm Avoidance Test	Pass
Water Holding Capacity (WHC)	340 % (EBC: ≥200%)
Antioxidant Activity (using DPPH - 2,2-diphenyl-1-picrylhydrazyl)	Moderate

Manufacturing License No.:

Batch No. :
Mfg. Date :
Exp. Date :
M.R.P. ₹ :
(Inclusive Of All Taxes)
USP ₹/kg :
Net Weight :

Our product conforms to all required specification limits for physical, chemical, contaminant, and agronomic performance parameters in accordance with following standards.

- **FCO (Fertilizer Control Order – India)**
- **WBC (World Biochar Certificate)**
- **EBC (European Biochar Certificate)**
- **IBI (International Biochar Initiative)**

Ensuring safe, sustainable, and high-performance agricultural use.

BhuKranti BIOCHAR TABLET SERIES PREMIUM BIOCHAR TABLETS FOR SUSTAINABLE GLOBAL AGRICULTURE



MANUFACTURED & MARKETED BY :

CAMPRO,

Sagar Developer, Q Group, Unit No.B/3, Survey No. 352 B-1, Western Express Highway, Next to JIO Petrol Pump, Viva compound, Nalasopara East -Pelhar, Maharashtra - 401208.

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INGREDIENTS:

Each Compressed Tablet Contains:

Pure Biochar 51.4 %
Neem cake 10.3 %
Moringa Leaf 4.4 %
Seaweed Extract 7.4 %
Excipients (Pharma Grade) Q.S.

RECOMMENDED APPLICATION DOSE :

• Field Crops : 165 kg/acre
• Horticulture : 30 – 40 kg/acre
• Plantation/Orchards Crops : 75 gm –100 gm per plant
• Perennial plants : 50 gm per plant
• Nursery/Potting : 5–10% of potting mix

DIRECTIONS FOR USE :

Apply during soil preparation, basal dose, or plantation.
For better Results - Incorporate into topsoil (10–30 cm deep) and irrigate.

STORAGE & HANDLING :

Store in a dry place.
Do not store above 45 °c.
Protect from Direct Sunlight & Moisture.
Keep the bag sealed.

SAFETY INFORMATION :

Eco-friendly & non-toxic.
Not for human or animal consumption.
For agricultural use only.