



PIONEERS IN SUSTAINABLE AGRICULTURE

Sat-Prem™ Organic Fertilizers, Bio-Fertilizers &
Bio-Stimulants

Innovating for Healthier Soil, Greener Fields, and Sustainable
Farming Futures

www.spsbiochem.com



SPS BIO-CHEM
Pvt. Ltd.
The Power of Thinking Future

Our Origin: From Concrete Foundations to Living Fields

SPS BIO-CHEM Pvt. Ltd., based in Damla, Yamuna Nagar, is the green venture of the renowned SPS Group, with roots in construction, infrastructure, real estate, and sustainable agriculture. Founded to restore soil health and reduce chemical use, it now leads a green revolution across India. Backed by decades of engineering expertise, SPS BIO-CHEM specializes in organic manure, biofertilizers, and bio-stimulants tailored to India's diverse agro-climates. Our mission: revive soil, boost natural yields, and empower farmers for a sustainable future. Recognized by UNIDO for innovation in green agriculture, we're proud to drive regenerative farming models globally. Our advanced in-house lab, led by expert microbiologists and agronomists, powers every breakthrough we deliver.



Our lab enables:

- Rigorous quality control of all Sat-Prem™ products
- Development of customized crop- and soil-specific solutions
- Continuous research on microbial efficiency, soil health, and nutrient bioavailability
- Compliance with national and international safety and performance standards

Our Mission

- Create scientifically proven organic inputs to boost soil fertility
- Minimize chemical use for safer, healthier food
- Support farmers with localized, high-impact solutions
- Promote eco-friendly, biodiversity-friendly agriculture
- Drive innovation in green farming through R&D

Our Vision

- Be India's torchbearer in sustainable farming.
- Empower rural India through profitable, earth-friendly agriculture.
- Lead a global transition toward nature-positive food systems.
- Establish Sat-Prem™ as the go-to brand for holistic crop nourishment.

SAT-PREM™ FERMENTED ORGANIC MANURE (FOM)

Organic Carbon Enhancer from Compressed Bio Gas Plants

Microbial Inoculant for Enhanced Soil Fertility & Crop Productivity

Product Overview:

Fermented Organic Manure (FOM) is a biologically enriched, eco-friendly organic input produced through anaerobic fermentation of agricultural by-products such as press mud and cow dung. This natural process increases nutrient bioavailability and stimulates soil microbial activity, resulting in enhanced soil fertility, improved soil structure, and vigorous plant growth.

Earlier categorized under Organic Fertilizers as per FCO 1985 guidelines, FOM has now been officially reclassified under the 2025 amendment as an "Organic Carbon Enhancer" by the Fertilizer Control Order (FCO). This acknowledges FOM's critical role in boosting soil organic carbon and supporting long-term soil health

Quality Parameters (Fermented Organic Manure):

Parameter	FCO Specification/Limit
Moisture per cent by weight, Maximum	30-70
Organic carbon (minimum)	12-14%
pH	6.0-8.4
Electrical conductivity	Not more than 4.0
Pathogens	Nil

Key Benefits:

- Increases soil organic carbon and humus content
- Enhances soil microbial biodiversity
- Improves soil aeration, texture, and water retention
- Promotes robust root development and crop vigor
- Reduces reliance on chemical fertilizers
- Revitalizes degraded, saline, alkaline or exhausted soils
- Supplies essential secondary nutrients like Calcium, Magnesium, Sinc, Copper and Sulphur



- 30 kg & 50 kg HDPE bags
- Open bulk packaging available on request

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	750 kg-1 ton per acre	Apply as basal dose 15-20 days before sowing, in corporate thoroughly into soil or mixed, during early vegetative phase
Horticulture & Plantation	0.5-3 kg per plant 1.2-1.5 ton per acre	Apply around root zone at the time of planting or early growth stages, in corporate/mixed thoroughly into the soil

Repeat application every crop cycle or as advised by your agronomist for optimum results.
The product's performance depends on environmental and field conditions.

SAT-PREM™ JAIVIK KHAD

Organic Carbon Enhancer from Compressed Bio Gas Plants

Microbial Inoculant for Enhanced Soil Fertility & Crop Productivity

Product Overview:

Fermented Organic Manure (FOM) is a biologically enriched, eco-friendly organic input produced through anaerobic fermentation of agricultural by-products such as press mud and cow dung. This natural process increases nutrient bioavailability and stimulates soil microbial activity, resulting in enhanced soil fertility, improved soil structure, and vigorous plant growth.

Earlier categorized under Organic Fertilizers as per FCO 1985 guidelines, FOM has now been officially reclassified under the 2025 amendment as an "Organic Carbon Enhancer" by the Fertilizer Control Order (FCO). This acknowledges FOM's critical role in boosting soil organic carbon and supporting long-term soil health

Quality Parameters (Fermented Organic Manure):

Parameter	FCO Specification/Limit
Moisture per cent by weight, Maximum	30-70
Organic carbon (minimum)	12-14%
pH	6.0-8.4
Electrical conductivity	Not more than 4.0
Pathogens	Nil

Key Benefits:

- Increases soil organic carbon and humus content
- Enhances soil microbial biodiversity
- Improves soil aeration, texture, and water retention
- Promotes robust root development and crop vigor
- Reduces reliance on chemical fertilizers
- Revitalizes degraded, saline, alkaline or exhausted soils
- Supplies essential secondary nutrients like Calcium, Magnesium, Zinc, Copper and Sulphur



- 5 kg & 10 kg HDPE bags
- Open bulk packaging available on request

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	750 kg-1 ton per acre	Apply as basal dose 15-20 days before sowing, incorporate thoroughly into soil or mixed, during early vegetative phase
Horticulture & Plantation	1-3 kg per plant 1.2-1.5 ton per acre	Apply around root zone at the time of planting or early growth stages, incorporate/mixed thoroughly into the soil

Repeat application every crop cycle or as advised by your agronomist for optimum results.
The product's performance depends on environmental and field conditions.

SAT-PREM™ PROM

Phosphate Rich Organic Manure

Product Overview:

SAT-PREM, PROM is a granulated, eco-friendly Phosphate Rich Organic Manure made from Fermented Organic Manure (FOM). It offers a balanced blend of natural rock phosphate, nitrogen, potash, organic carbon, and micronutrients, supporting crops throughout their growth cycle. It naturally solubilizes soil phosphorus, enhances root development, improves water retention, and boosts resistance to drought and heat stress. With regular use, it improves soil fertility, promotes microbial activity, increases yield, and reduces dependency on chemical fertilizers-making it ideal for sustainable farming.

Quality Parameters (Phosphate Rich Organic Manure (PROM)):

Parameter	FCO Specification/Limit
Moisture per cent by weight, maximum	25.0
Particle size	Minimum 90% material should pass through 4.0mm IS sieve
Bulk density (g/cm ³)	less than 1.6
Total organic carbon, per cent by weight, minimum	*8.0
Total Nitrogen (as N) per cent by weight, minimum	0.4
Total phosphates (as P ₂ O ₅) per cent by weight, minimum	8.0
C:N ratio	less than 20:1
pH (1:5 solution) maximum	*6.5-8.0
Conductivity (as dSm ⁻¹) not more than	10.0

Key Benefits:

- Enriches soil with balanced nutrients and organic carbon
- Boosts beneficial microbial activity near roots
- Makes soil phosphorus available to plants
- Supports early growth and plant strength for higher yields
- Enhances drought and heat stress tolerance
- Improves soil structure and water retention
- Provides secondary nutrients like Ca, Mg, S, Cu, and Zn
- Eco-friendly alternative to chemical fertilizer



- 50 kg HDPE bags
- Open bulk packaging available on request for B2B

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	200-250 kg per acre	Apply as basal dose 15-20 days before are at the time of sowing/transplanting in corporate thoroughly into soil or mixed, during early vegetative phase
Horticulture & Plantation	250-300 kg per acre	Apply around root zone at the time of sowing/planting or early growth stages, in corporate thoroughly into soil during early vegetative phase

Repeat application every crop cycle or as advised by your agronomist for optimum results.
The product's performance depends on environmental and field conditions.

SAT-PREM™ MYCORROOTS

The Smart Bio-Fertilizer for Stronger Crops and Healthier Soil

Product Overview:

Sat-Prem, Mycorroots is an eco-friendly bio-fertilizer powered by VAM fungi that form a symbiotic bond with plant roots, enhancing water and nutrient absorption. It strengthens roots, improves plant health, boosts yields, and promotes long-term soil fertility-reducing the need for chemical fertilizers. Once applied, the fungi develop an underground hyphae network that extends the root system and improves the uptake of key nutrients like phosphorus, nitrogen, zinc and develop more secondary roots. Mycorroots also enhances soil structure, moisture retention, microbial activity, and crop resistance to stress and diseases.

Quality Parameters (Mycorrhizal Biofertilisers):

Parameter	FCO Specification/Limit
Total viable spores/gram of Product	Minimum 10 viable spore per gram of finished product
pH	*5.0-7.0
Inoculum potential	1200 IP per gram of finished product by MPN method with 10 fold dilution.

Key Benefits:

- Promotes strong root growth and plant stability
- Enhances nutrient uptake and drought resistance
- Stimulates growth and increases crop yield
- Improves soil texture, aeration, and microbial activity
- Strengthens plant immunity and soil sustainability
- Reduces reliance on chemical fertilizers

Important Usage Guidelines:

- Ensure soil is moist before application.
- Do not mix with fungicides.
- Compatible with organic and integrated nutrient management programs.
- Suitable for all major crops under Indian agro-climatic conditions.



- 1 kg, 4 kg, 250 ml, 500 ml, 1 litre
- Open bulk packaging available on request

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	4-8 kg per acre 1-1.5 ltr per acre	Apply around root zone as basal dose top dressing after 10-60 days sowing/transplanting in corporate thoroughly into soil drenching/drip/fertigation
Horticulture & Plantation	6-8 kg per acre 1-2 ltr per acre	Apply around root zone as basal dose top dressing after 10-60 days sowing/transplanting in corporate thoroughly into soil drenching/drip/fertigation

Repeat application every crop cycle or as advised by your agronomist for optimum results. The product's performance depends on environmental and field conditions.

SAT-PREM™ YUVAAN-K

Powered by Natural Potash for Robust Growth, Thriving Plants & Maximum Yield

Product Overview:

SAT-PREM YUVAAN-K is a premium Potash Derived from Molasses (PDM)—a next-generation potassium fertilizer crafted by recovering natural potash from molasses and converting it into high-quality granules.

A smart, eco-friendly alternative to Muriate of Potash (MOP), it supports both vegetative and reproductive growth—enhancing plant strength, nutrient flow, yield, and produce quality.

Available in red or black granules, tailored to your needs.

Quality Parameters (Potash Derived from Molasses (PDM):

Parameter	FCO Specification/Limit
Moisture per cent by weight Maximum	5.0
Water Soluble Potash (as K ₂ O), per cent by weight) minimum	14.5

Key Benefits:

- Promotes strong root and shoot development
- Enhances photosynthesis and enzyme activity
- Improves drought tolerance and stress resistance
- Increases yield, crop quality, and shelf life
- Enhances nutrient uptake efficiency
- Supports soil health and microbial activity
- Sustainable and eco-friendly potash source

Mode of Action:

- Maintains cell turgor and osmotic balance
- Regulates stomatal opening for efficient water management
- Activates essential metabolic enzymes
- Facilitates transport of sugars and nutrients throughout the plant



•50 kg

Recommended Dosage & Application:

•Open bulk packaging available on request B2B

Application Type	Recommended Dose	Application Instructions
Basal Application	200–250 kg per acre	Apply before or at the time of sowing/transplanting in corporate thoroughly into soil.
Top Dressing	200–250 kg per acre	Apply during active crop growth stage/before fruiting/flowering.
With Other Fertilizers	As recommended	Can be mixed and applied along with all other fertilizers.

Note: Dose may vary depending on crop type and soil condition.

Suitable Crops:

- Suitable for all crops including:
- Feild Crops • Cereals • Pulses • Fruits • Vegetables • Horticultural Crops : **Apple**
 - Sugarcane • Potato • Banana • Oilseeds

SAT-PREM™ SAGAR SANJEEVANI-L

Product Overview:

Sagar Sanjeevani (Liquid), under the SAT-PREM brand, is an innovative next-generation Bio Stimulant made from pure Sargassum tenerrimum 10% seaweed extract. Rich in natural bioactive compounds, growth hormones, and alginic acids & plant growth hormones, it enhances soil fertility, root development, nutrient uptake, and crop stress tolerance. 100% Organic, non-Toxic, and Residue-free, it supports healthy plant metabolism and improves overall yield and quality, especially for paddy crops.

By harnessing the regenerative power of marine bio-actives, it promotes resilient, sustainable farming while reducing dependence on harmful plant growth chemical agents. Sagar Sanjeevani truly brings the ocean's vitality to your fields for better harvest, healthier plants & high-quality produce with more yield.

Quality Parameters (Bio Stimulant Sargassum tenerrimum 10% seaweed extract liquid):

Parameter	FCO Specification/Limit
Alginic Acid per cent by weight, minimum	2.0
pH (1:2 aqueous solution)	8.0-10
Organic Matter (dry mass basis) per cent. by weight, minimum	20

Key Benefits:

- Improves soil fertility, organic carbon content, and promotes beneficial soil microbiology.
- Increases nutrient uptake and availability, supporting stronger root development.
- Activates key physiological processes like photosynthesis, respiration, cell division, and metabolism.
- Strengthens natural plant defences against biotic and abiotic stresses.
- Promotes healthy tiller development, resulting in higher crop yields and better-quality produce with greater market value.

Important Usage Guidelines:

- Foliar Spray: 2-3 ml per litre of water - apply during vegetative growth stage or flowering/milking stage.
- Ensure good soil moisture for best results.



- 250 ml, 500 ml, 1 litre
- Open bulk packaging available on request

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	250-300 ml per acre 2-2.5 ml per ltr water	foliar spray 200-250 ltr fresh water
Horticulture & Plantation	300-400 ml per acre 2-3 ml per ltr water	foliar spray 250-300 ltr fresh water

Repeat application every crop cycle or as advised by your agronomist for optimum results. The product's performance depends on environmental and field conditions.

SAT-PREM™ SAGAR SANJEEVANI-GR

Product Overview:

Sagar Sanjeevani is an innovative next-generation bio-stimulant under the brand name of SAT-PREM, developed through advanced biotechnology and inspired by the regenerative power of the ocean.

This unique formulation contains Sargassum tenerrimum 2% (granular) seaweed extract in organic form. Non-toxic, and residue-free, it helps improve soil fertility, root growth, and crop resilience. It harnesses the natural benefits of marine bio-actives, such as alginic acids and enhances natural plant growth & yield. It works naturally to rejuvenate soil health, improve nutrient availability, and activate plants' natural growth processes.

Especially beneficial for paddy growing regions, helping progressive farmers and agri-professionals achieve better yield naturally. Sagar Sanjeevani truly brings the essence of the rare ocean elements to your soil, empowering you to grow healthy, productive crops while protecting the environment.

Quality Parameters (Bio Stimulant Sargassum tenerrimum 2% GR):

Parameter	FCO Specification/Limit
Alginic Acid per cent by weight, minimum	0.2
pH (1:2 aqueous solution)	6.0-8.5
Bulk Denisty (g/cc)	0.95-1.1

Key Benefits:

- Improves soil fertility, organic carbon content, and promotes beneficial soil microbiology.
- Increases nutrient uptake and availability, supporting stronger root development.
- Activates key physiological processes like photosynthesis, respiration, cell division, and metabolism.
- Strengthens natural plant defences against biotic and abiotic stresses.
- Promotes healthy tiller development, resulting in higher crop yields and better-quality produce with greater market value.

Important Usage Guidelines:

- Apply Sagar Sanjeevani during crop cycle (basal/top dressing) in a soil application. It can be applied directly in the soil or mixed with organic/inorganic fertilizers, micro-nutrients, or soil conditioners.
- Ensure the soil has sufficient moisture for best results.



- 1 kg, 5 kg
- Open bulk packaging available on request

Recommended Dosage & Application:

Crop Type	Dosage	Application Instructions
Field Crops & Vegetables	5 kg per acre	Apply as top dressing after 10-75 days sowing/transplanting in corporate thoroughly into soil.
Horticulture & Plantation	5-10 kg per acre	Apply as top dressing after 10-75 days sowing/transplanting in corporate thoroughly into soil.

Repeat application every crop cycle or as advised by your agronomist for optimum results. The product's performance depends on environmental and field conditions.

SAT-PREM™ SARVBHOOMI-GR

Microbial Inoculant for Enhanced Soil Fertility & Crop Productivity

Product Overview:

SarvBhoomi GR is a biologically active soil conditioner and microbial inoculant that enhances soil fertility and supports healthy plant growth.

It contains beneficial microorganisms that make soil nutrients more available, strengthen roots, and improve overall crop performance. This natural approach helps revitalize soil and promotes sustainable, high-yield agriculture.

Quality Parameters (Carrier Based Consortia):

Parameter	FCO Specification/Limit
Individual organism viable count	CFU minimum in a mixture of any 2 or maximum three of following micro-organisms: CFU minimum Rhizobium or Azotobacter 1×10 ⁷ cells per gram (g) or Azospirillum CFU minimum PSB 1×10 ⁷ cells per gram (g) CFU minimum KSB 1×10 ⁷ cells per gram (g)
Total viable count of all bio fertilizers in the product	CFU minimum 3×10 ⁷ cells per gram of carrier/powder.
Efficiency Character	The efficiency character of individual microorganisms to be determined as mentioned in case of individual biofertilizers through quantitative estimation methods.

Key Benefits:

- Improves soil structure and pH balance
- Strengthens roots and promotes tillering
- Enhances nutrient availability and absorption
- Supports flowering, fruit set, and reduces fruit drop
- Increases crop quality, sweetness, and yield
- Minimizes reliance on chemical fertilizers

Mode of Action:

- Nitrogen Fixation: Converts atmospheric nitrogen into plant-usable forms
- Phosphate Solubilization: Unlocks insoluble phosphate for better absorption
- Potash Mobilization: Releases potassium bound in soil complexes
- Micronutrient Activation: Makes essential microelements available to plants

Recommended Dosage & Application:

Crop Type	Recommended Dose	Application Instructions
All Crops	5 kg per acre	Apply during any stage of crop cycle: as basal dose with seeds at sowing, or during top dressing.

Note: Dose may vary depending on crop type and soil condition.

Why Choose SARVBHOOMI GR?:

- Strengthens soil biology and fertility naturally
- Supports sustainable and regenerative farming
- Enhances crop yield, quality, and health



• 1 kg & 5 kg

SAT-PREM™ SARVBHOOMI-L

Liquid Consortia Biofertilizer – Nature's Fertilizer Factory

Product Overview:

Sarv Bhoomi-L is an advanced liquid biofertilizer formulated with a synergistic consortium of beneficial microorganisms:

- Nitrogen-fixing bacteria helps in Soil fertility
- Phosphate-solubilizing bacteria (PSB) helps in Root development
- Potassium-mobilizing bacteria (KSB) helps in Nutrient absorption Overall crop productivity

Quality Parameters (Liquid Consortia):

Parameter	FCO Specification/Limit
Individual organism viable count	CFU minimum in a mixture of any 2 or maximum three of following micro-organisms: CFU minimum Rhizobium or Azotobacter 5×10^7 cells per milliliter (ml). or Azospirillum CFU minimum PSB 5×10^7 cells per milliliter (ml). CFU minimum KSB 5×10^7 cells per milliliter (ml).
Total viable count of all bio fertilizers in the product	CFU minimum 1.5×10^8 cells per cells per milliliter (ml).
pH	5.0-7.0
Contamination Level	No contamination at any dilution.
Efficiency Character	The efficiency character of individual microorganisms to be determined as mentioned in case of individual bio fertilizers through quantitative estimation methods.

Key Benefits:

- Converts atmospheric nitrogen into plant-available forms
- Solubilizes soil-fixed nutrients (N, P, K) for better uptake
- Promotes strong root growth and crop vigor
- Enhances soil microbial activity and biodiversity
- Reduces chemical fertilizer usage
- Easy-to-apply liquid formulation for seeds, seedlings, or soil

Mode of Action:

- Nitrogen Fixation: Converts atmospheric nitrogen into plant-usable forms
- Phosphate Solubilization: Unlocks insoluble phosphate for better absorption
- Potash Mobilization: Releases potassium bound in soil complexes
- Micronutrient Activation: Makes essential microelements available to plants

Recommended Dosage & Application:

Crop Type	Recommended Dose	Application Instructions
General Crops	1 Litre per acre	Apply directly to soil as per recommended dose.
Root / Bulb / Seedlings	1 Litre/50 L water	Dip roots for 30 minutes and sow immediately.
Soil Drenching / Field Soil	As per requirement	Mix or coat with compost, FYM, organic fertilizers, biostimulants, or other soil conditioners.

Note: Dose may vary depending on crop type and soil condition.



1 litre, 500ml, 250ml



Our Product Range

SAT-PREM™

Empowering Nature, Enriching Agriculture

Backed by ICAR-lab validation and SPS Group's legacy of innovation.

Discover the Power of Sat-Prem™ Organic Solutions

Our Comprehensive Range Includes:

Organic Fertilizers	- Naturally improve soil fertility - Add essential nutrients and microbes - Boost water retention & soil health
Bio-fertilizers	- Enhance nutrient uptake through microbes - Improve soil biology - Sustainably increase crop yield
Bio-stimulants & Micronutrients	- Stimulate growth & stress resistance - Ensure balanced nutrition - Enhance crop resilience
Bio-pesticides	- Eco-friendly pest and disease control - Reduce chemical pesticide use - Support healthier crops and soil life

Why Farmers Choose Sat-Prem™

- Scientifically formulated for Indian soils and crops
- Eco-friendly and safe for people, animals, and the environment
- Improves soil structure and water retention
- Enhances yield and crop quality naturally
- Supports sustainable, profitable farming



Contact Us

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