

Dr. P. G. Deshmukh





GO BACK TO NATURE...!!!

Excessive use of Chemical Fertilizers disturb the soil micro flora and makes soil infertile.

Non judicious application of Chemical Pesticides result in pest resistance, Environmental degradation, Soil and Water Pollution and Toxicity to Beneficial flora and fauna.

Therefore, for sustainable agriculture, it is high time to

GO BACK TO NATURE....

AND

NEEM IS ONLY SOLUTION TO ACHIEVE IT.



THE NEEM TREE

Botanical Name:	<i>Azadirachta indica</i> A. JUSS.
Family:	Meliaceae.
Center of Origin:	India.
Life of the Tree:	200-300 Years.
Height of the Tree:	20-30 m.
Fruit Yield:	50-70 Kg/tree/year.
Useful Parts:	Fruits, Leaves, Flowers and Bark.
Active Ingredients:	Azadirachtin, Nimbin, Nimbidin, Nimbicidin and Salanin.
Common Names:	Neem, Margosa, Indian Lilac, Mwarobaini, Mkilifi, Azad-darakht-i-hindi, Nimba etc.



WHY NEEM ?

Neem is an ancient tree of India, every part of it having wide applications in agriculture, health care, cosmetics, environment etc.

Neem is ecologically sound, equitable and ethical in pest management.

It acts as control agent, which is target pest-specific, non-toxic to human and other biota and biodegradable in nature.

It is less prone to pest resistance and resurgence.

It has been identified as a source of environmentally 'Soft' natural pesticide.

Neem cake is rich in NPK content and other micro elements.

Neem products are relatively less expensive than synthetic one.



NEEM IN AGRICULTURE

Natural Pesticide: Used to control wide range of Insects and Non-Insect Pests.

Natural Fungicide: Inhibits the growth of fungal mycelia and controls bacterial infections.

Natural Nematocide: Controls the phytopathogenic Nematodes and Termites habitats in soil.

Natural Nutrients: Plays important role in IPNS by Supplying natural NPK and other essential Micro-nutrients to the Plants.

Nitrogen Regulator: Neem oil coating and mixing Neem Cake Powder in the Chemical Fertilizer controls the leaching losses of Nitrogen. Indian Government has made Neem oil coating to urea compulsory.



NEEM IN HEALTH CARE

Fruits: Raw or Decoction of Neem Fruit is beneficial in Hemorrhoids, Urinary diseases and Constipation.

Seeds: Used as Antidote to Poisoning and helps in Tuberculosis.

Seed Oil: Prevents Baldness and Greying of hairs when mixed with Hair oil.

Leaves: Leaf Juice is blood purifier, beneficial in Jaundice. Leaf Ash is helpful in Urinary Stones. Hot infusion is used for hair washing.

Flowers: Dried Flowers are consumed as appetite stimulant. It helps in balancing body heat & reduce cough.

Bark: Decoction is helpful in Jaundice and efficient in Colic & Liver disorders. It is also used for Dental Care.



IN ENVIRONMENT CARE

Dense Forest of Neem Helps in Control of Soil and Water erosion.

Acts as Natural Air Purifier and Controls Air Pollution.

Fallen Leaves and Fruits increases the content of Organic matter in Soil and enhances Soil health.

Acts as Shelter belt and Windbreaks to Protect the Horticultural Crops from cyclones & floods.

It also acts as Shelter House for many beneficial Insects and Mammals.



SAMARTH HERBOTECH (I) PVT. LTD.

Samarth Herbotech India Pvt. Ltd. is Aurangabad (India) based company which is situated at 400 Kms East of Mumbai.

The company is in the field of Natural Products for last 10 years and providing state of the art technology for setting up Neem and other medicinal herbal product for agro-community and healthcare.

Looking at the virtues of the Neem and its need in Environmentally sound and sustainable Agriculture, the Company entered into manufacturing and marketing of World Class Neem-based Natural Pesticides and Organic Fertilizers to serve the agro-community of the world.

The Company is marketing its Neem Products in Japan, Korea, Sri Lanka, Middle East and African Countries.



NEEM BASED AGRO PRODUCTS

SUNEEM DROP - Pure Neem Seed Kernel Oil. &Neem Formulated Pesticide E. C.

SUNEEM DROP 300 PPM : 0.03% EC Aza. based soft Natural Insecticide.

SUNEEM DROP 1500 PPM : 0.15% EC Aza. based soft Natural Insecticide.

SUNEEM DROP 3000PPM : 0.3% EC Aza. based Botanical Insecticide (3000 PPM)

SUNEEM DROP 10000 PPM: 1% EC Aza. based Natural Insecticide (10000 PPM)

SUNEEM DROP 50000 PPM-5% EC Aza based Natural insecticide(50000 ppm)

SUNEEM GOLD - Neem based Organic Fertilizer / Soil Conditioner containing Pure Neem Cake Powder.



SUNEEM DROP

Pure Neem Kernel Oil

It is Pure Neem Kernel Oil extracted from decorticated clean and quality Neem berries by specially developed Cold Pressed Technology to retain active ingredients of Neem intact.

It has wide application in Agriculture, Public and Animal Health Programs.

It contains 500 – 700 PPM Azadirachtin and also contains Salanin, Nimbin, Nimbidin & Nimbicidin.

Available in ½ lit, 1 lit, 5 lit, 35 lit and 200 litres of HDPE containers.



SUNEEM DROP

Benefits

SUNEEM DROP being pure kernel oil having natural pest and disease control properties, it can be effectively used in Integrated Pest Management of organic farming.

SUNEEM DROP is Totally Biodegradable, has no phytotoxic effect and safe to beneficial biota.

It has excellent fumigation properties. It is used in control of stored grain pest by coating the grains with Neem Drop. Alternatively, dip the gunny bags in Neem Drop emulsion, dry it and then store the grains in the bags.



SUNEEM DROP

Application Methods

STEPS TO PREPARE TEN LITRES EMULSION

Dissolve 1.5 g of natural emulsifier powder in 1000 ml of lukewarm water and stir vigorously till it gets completely dissolved.

Then to this, add 9000 ml of water and 50 ml of Neem Drop. Again stir vigorously to form milky white emulsion.

Use this emulsion for foliar application and soil drench using knapsack spray.

Spray within 3 hours of mixing. Repeat the spraying 5 times at intervals of 7 to 10 days each.

For power spray, double the quantity of emulsifier and Neem Drop.



SUNEEM DROP EC

Natural Pesticides

It is Neem based natural pesticidal formulation containing active ingredients of Neem, such as Azadirachtin, Nimbin, Nimbidin, Nimbicidin, Salanin etc.

SUNEEM DROP is available in various strengths on the basis Azadirachtin content of 300, 1500, 3000 ,10000 & 50000 PPM.

SUNEEM DROP 300 & 1500 PPM

Soft Natural Insecticides



APHIDS



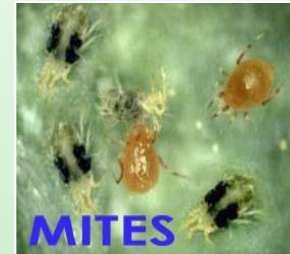
THRIPS



WHITE FLY

SUNEEM DROP 3000 PPM

0.3% Aza. E.C. Natural Insecticide



MITES



WHITE FLIES



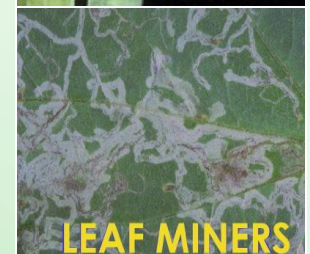
APHIDS



DIAMOND BLACK MOTH



BROWN PLANT HOPPER



LEAF MINERS



TOBACCO CATERPILLAR



WESTERN FLOWER THRIPS

SUNEEM DROP 10000 & 50000

1% & 5%Aza. E.C. Natural
Insecticide



COLORADO POTATO BEETLE



MANGO STEM BORER



SAPOTA ROOT WEEVIL



COCONUT ERIOPHYID MITE



LOCUST



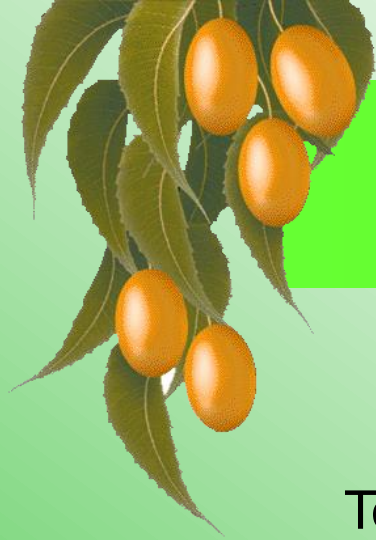
RHINOCEROUS BEETLE



RED PALM WEEVIL



DIAMOND BLACK MOTH



SUNEEM DROP

Benefits...

Totally biodegradable leaving no residue and no phytotoxicity, hence can be safely used on field crops, vegetables, fruits, flowers and plantation crops.

Offers natural way of crop protection through multiple mode of action on insects.

Does not develop resistance and resurgence insects.

Compatible with commonly used insecticides, fungicides, herbicides and foliar fertilizers.

Effective against number of bacterial and fungal diseases.

Safe for natural pollinators, predators and beneficial fauna.



SUNEEM DROP

Comprehensive Control Mechanism



EGG: Ovicidal, Ovipositional Deterrent, Toxicant, Egg Hatchability.



LARVAE: Antifeedent, Repellent, Growth Disruptant, Molt & Chitin Inhibitor, Mortality.



PUPAE: Growth Disruptant, Molt Inhibitor, Growth Regulator, Juvenile Hormone.



ADULT: Antifeedent, Repellent, Male Sterility, Ovipositional Deterrent, Mortality.



SUNEEM DROP

Application Areas



Plantation Crops



Cash Crops And
Other Field Crops



Fruit Crops



Vegetable Crops



Floriculture &
Greenhouse Crops



Medicinal And
Aromatic Plants



Spices And
Condiments



SUNEEM DROP

Method Of Application

Shake the bottle of SUNEEM DROP before use.

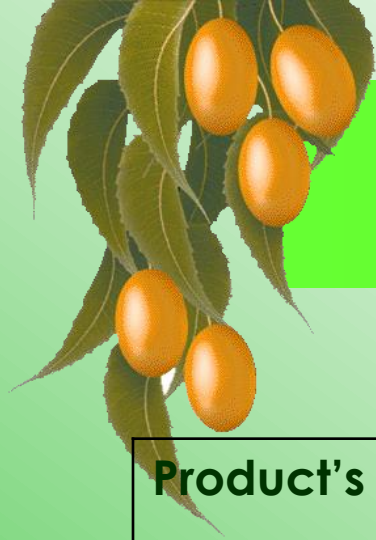
While making emulsion add water to SUNEEM DROP in appropriate percentage.

After diluting in water stir for 5 minutes to get white milky stable emulsion.

Spray this emulsion immediately, preferably early morning or late evening on both sides of leaves to get best results.

Sprays are given 7 to 10 days interval for best results.

Store SUNEEM DROP in a cool & dry place, away from flame and sun light.



SUNEEM DROP

Application Rate

Product's Name	Dilution per Lit. of Water	Application per hectare
SUNEEM DROP– 300 PPM	5 ml / lit	2.5 lit
SUNEEM DROP – 1500 PPM	3 ml / lit	1.5 lit
SUNEEM DROP – 3000 PPM	1.5 to 2 ml / lit	0.75 to 1 lit
SUNEEM DROP–10,000 PPM SUNEEM DROP-50,000 PPM	0.5 to 1 ml / lit 0.25 to 05 ml/lit	0.25 to 0.50 lit 0.12 to 0.25 lit

The above dilutions are for Knapsack spray. For power spray, double quantity of Suneem Drop is to be used to get best results. Higher concentrations can be used depending upon severity of infestation and infection of pest and Diseases.



SUNEEM DROP

On Pests Of Fruit Crop

COCONUT & DATE PALM

Eriophyid Mite, Red palm weevil, Blockheaded Caterpillar, Fruit Butterfly, Rhinoceros Beetle, RootKnot Nematodes

CITRUS

Citrus mealybug, Black aphid, Leafminor, Citrus butterfly, Orange stem Borer, Red spider mite, Citrus nematode

MANGO

Mango Hoppers, Mango Stone Weevil, Mango Stem Borer, Oriental Fruit Fly, Mango Mealy Bug

BANANA

Oriental Fruit Fly
Nematodes, Aphids
Rhizome Weevil
Pseudostem Borer

GRAPES

Flea beetle, Spider mites, Mealy bug
Root-knot nematodes
Leaf Roller

APPLE

San jose scale,
Tent caterpillar,
Apple woolly aphid, Codling moth, Apple psylla



SUNEEM DROP

On Pests Of Vegetables

Fruit Vegetables

Fruit Borer, Tobacco Caterpillar, Shoot & Fruit Borer, Epilachna Beetle, Flea Beetle, Jassids, Aphids, White Fly, Thrips, Leaf Miners, GallMidge, Red Mite, Root Knot Nematodes, White Grub

Legume Pulses

Stem Fly, Pea Aphids, Pod Borer, White Fly, Root Knot Nematodes, Bean Pod Borer, Flower Thrips, Leaf Miners, Chrysomelid Beetle

Cucurbits

Red Pumpkin Beetle, Epilachna Beetle, Coccinellid Beetle, Leaf Eating Catterpillar, Leaf Miners, Fruit Fly

Cole Crops

Diamond Black Moth,
Stem Borer, Aphids,
Cabbage Looper,
Cabbage Fly

Tuber Crops

Colorado Potato
BeetleAphids,
Jassids, White Fly,
Potato Tuber Moth

Onion & Garlic

Onion Thrips,
Aphids, Leaf Miners,
Borer, Onion Maggot



SUNEEM DROP

On Pests Of Floriculture

Rose

Sawflies, Japanese beetle, Aphids, Spider mites, Rose stem borer, Rose midge, Gall wasps, Thrips, Whitefly, Nematodes

Chrysanthemum

Aphids, Thrips, Whitefly, Spider mites, Nematodes

Carnation

Aphids, Bud borer, Thrips, Leaf rollers, Whitefly, Nematodes

Gerbera

Thrips, Whitefly, Spider mites, Caterpillar, Apids

Lisianthus

Whiteflies, Western flower thrips

Zinnia

Aphids, Thrips, Whitefly, Nematodes, Spider mites

Tagetes (Marigold)

Tarnished plant bug, Leafhopper, Spider mites



SUNEEM GOLD

Herbal Soil Conditioner

It is pure Neem organic fertilizer (Manure) manufactured by selecting best quality Neem seeds, cleaning it to make free from soil and other impurities.

It contains Neem kernel cake manufactured by specially developed cold pressed technology to retain maximum pesticidal ingredient intact in the cake.

This cake is suitably blended with other Neem seed parts and standardized to make total Neem organic fertilizer in powder form.

Suneem Gold is available in 20 & 40 kg. sealed HDPE bag. It is also available in 1 kg, 2 kg and 5 kg attractive packing for nurseries and kitchen gardens.



SUNEEM GOLD

Herbal Soil Conditioner



ROOTKNOTS

ROOT KNOT NEMATODE



WHITE GRUB



TERMITES

Suneem Gold
HERBAL SOIL
CONDITIONER

GO BACK TO NATURE

Net weight : 20 Kgs.
(When Packed)
Gross weight : 20.1 Kgs.
Batch No. :
Mfg. Date :

Back to Nature
Samarth Herbotech
(INDIA) Pvt. Ltd.
E-6, Chanakya Puri, Shahnoorwadi, Aurangabad - 431 005 (M.S.) India.
Telfax : +91-240-2351918 E-mail: samarthherbotech@gmail.com
MADE IN INDIA



SUNEEM GOLD

Specifications

ORGANIC MATTER
64.08 %

ORGANIC CARBON
37.17 %

C:N
18.68 : 1

N
1.99%

P₂O₅
0.6%

K₂O
1.74%

pH 5.72

EC 1.60 dSm⁻¹

Moisture
5.26 %

Ca
3.05%

Mg
1.95%

S
0.21%

Fe
1.42%

Mn
298ppm

Zn
62ppm

Cu
41ppm



SUNEEM GOLD

Application In Vegetable

Crops	Suneem Gold For Organic Farming	Suneem Gold with Chemical Fertilizer
FRUIT VEGETABLES: Tomato, Brinjal, Okra Chilli, Capsicum etc.	2000 Kg / ha	1000 Kg / ha
COLE CROPS: Cabbage, Cauliflower, Brussel sprout, Brocoli	2000 Kg / ha	1000 Kg / ha
TUBER CROPS: Potato, Sweet potato	2000 Kg / ha	1000 Kg / ha
ROOT CROPS: Radish, Carrot	1500 Kg / ha	800 Kg / ha
RHIZOME CROPS: Ginger, Turmeric	2000 Kg / ha	1000 Kg / ha
LEAFY VEGETABLES: Fenugreek, Spinach	200 gm / sq m	100 gm / sq m
CUCURBITS: Guards and Melons	40 gm / spot	20 gm / spot
BULBOUS VEGETABLES Onion and Garlic	200 gm / sq m	100 gm / sq m
LEGUME PULSES: Peas and Beans	1500 Kg / ha	800 Kg / ha



SUNEEM GOLD

Application In Fruits

Crops	Time of Application	Rate
BANANA PAPAYA	Planting	200 gm/plant
	After four months	300 gm/plant
	Before Flowering	500 gm/plant
MANGO, COCONUT, DATE PALM, SAPOTA	Planting	1 kg /plant
	Every year (up to 5)	2-4 kg/tree
	Every year (5 to 10)	4-6 kg/tree
	Every year (above 10)	8-10 kg/tree
CITRUS, FIG, CASHEWNUT, POMOGANATE	Planting	500 gm/plant
	Every year (up to 5)	1 kg/tree
	Every year (5 & above)	2-4 kg/tree
GRAPES	Planting	200 gm/vine
	After four months	300 gm/vine
	After each pruning	800 gm/vine
GUAVA, ANONA, APPLE	Planting	500 gm/plant
	Every year (up to 5)	1 kg/tree
	Every year (5 & above)	2-4 kg/tree



SUNEEM GOLD

Application In Floriculture



Soil application of Suneem Gold for floriculture is **1000 Kg/ha** i.e. **50 to 100gms per plant**. This dose is in combination with recommended dose of inorganic fertilizer. For complete organic farming Suneem Gold application is **2500 kg/ha**, i.e. 250 gm per meter square, which will provide 100:50:50 Kg NPK/ha approx.



SUNEEM GOLD

Simply Priceless...!

Totally biodegradable, leaving no residue.

Rich in natural NPK and micronutrients.

Ideal soil conditioner.

Controls Nematode population and optimizes soil micro flora.

Improves water-holding capacity.

Reduces leaching losses and regulates Nitrogen when applied with NPK fertilizers.

Ideal for horticulture, floriculture, organic farming, and poly houses.



BUSINESS OPPORTUNITIES

WITH SAMARTH HERBOTECH (I) PVT LTD

Benefits of being business associate of SAMARTH HERBOTECH

- Alliance with a dynamic company having strong base in agri inputs
- To deal with a company that values business ethics & entrepreneurship.
- Strong technical support.
- Opportunity to revolutionize the way agriculture is done

Opportunity to offer products which are:

- Eco-friendly - having wide application in agriculture.
- Manufactured under expert supervision and strict quality control standards.



The era of NEEM is about to dawn

It is high time to

GO BACK TO NATURE

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