

VEDAGNA BIOAG INDIA

Comprehensive Crop Care Solutions for Ecofriendly Crop Production



Vedagna the Agri Professionals

Vedagna Bio Ag India LLP is a Group of Professionals in Agriculture with a combined experience of more than 105 years in Research, Marketing, Consultancy and Agri Crops Field Management.

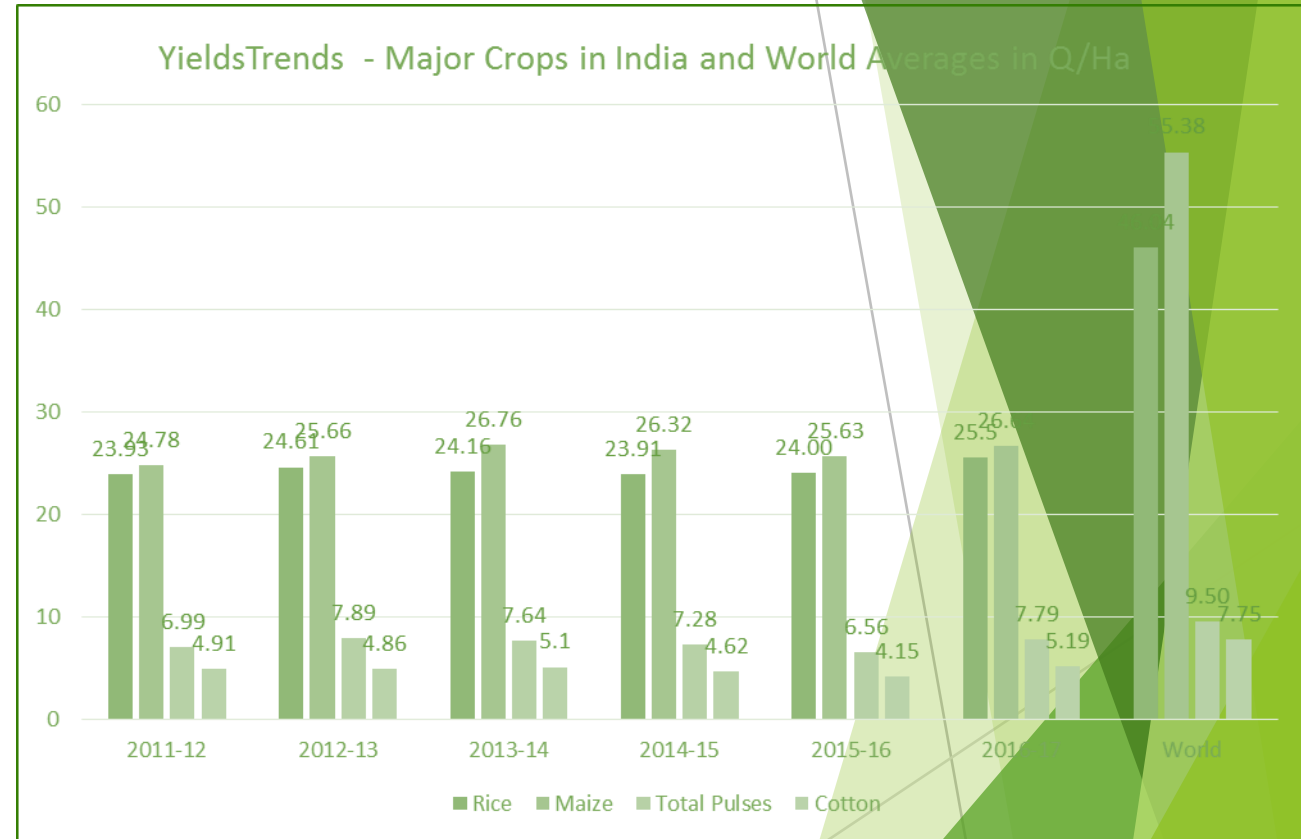
The Group is committed to develop safe, effective and cost beneficial environment friendly solutions for use in farming through harvesting traditional knowledge using biotechnology and other advanced research process.

We Are Different ! We Offer ...

Comprehensive Services For Current Needs ! Customised for Crops - The Bio Way, taking into account the challenges in farming for specific crops and geographies

Challenges for Agriculture

- ✓ Changing and Unpredictable climate
- ✓ Water a depleting resource
- ✓ Problematic and overworked soils
- ✓ Decreasing agricultural lands
- ✓ Pests and Diseases - Resistance
- ✓ High cost of cultivation
- ✓ Increased use of Fertilizer and Pesticides
- ✓ Stagnating Agricultural productivity
- ✓ Increasing demand for safe food
- ✓ Increase in Toxicity Levels in Crop and Soil



Stagnating Crop Productivity



Agri Bio technology is a technique that uses living organisms or substances from these organisms to make or modify a product for practical use.

This can be used to address issues in soil fertility, pest management, production and processing including:

- ✓ Solutions from novel & effective micro-organisms and microbial extracts to effectively manage pests with an integrated approach.
- ✓ Solutions from collection of microorganisms (taxonomic / biological groups and their secondary metabolites) as alternative for soil and foliar nutrition to sustain the soil and crop environment.



STATEMENT OF COMPLIANCE
No. NPOP/IM/89211064

For BEE SAFE FARMING PVT LTD

Operator Address:
PLOT NO.1, BEHIND HOTEL HIGHWAY, SIRSA ROAD,
District Hisar, Taluk Hisar, State Haryana,
INDIA.

Based on a signed contract and external inspection carried out in the November 2022, M/s. ECOCERT - India Pvt. Ltd., herewith confirms that the products mentioned in the list attached are manufactured by the above mentioned company, is in compliance for use in organic production as allowed/restricted product under NPOP.

Date of Issue: 17/01/2023
Valid up to: 06/09/2023

Place : Gurgaon


Seal: 
ECOCERT INDIA PVT. LTD.
WeWork, 11th Floor, 11B101,
RMZ Lighthouse Commercial
Authorized Signatory Rd Hebbal - 560024,
M/S ECOCERT - Bengaluru, Karnataka, India



Production Detail(s)/Annexure
For BEE SAFE FARMING PVT LTD

Operator Address:

PLOT NO.1, BEHIND HOTEL HIGHWAY, SIRSA ROAD,
District Hisar, Taluk Hisar, State Haryana,
INDIA.

Issued in reference to certificate No.
NPOP/IM/89211064

S No.	Name of Production Unit	Brand Name	Use for Nutrient/Pest control/ Growth enhancement
1.	AGFERM INNOVATIONS PRIVATE LIMITED	KAMLA/SHOOT	Pest Control
2.	AGFERM INNOVATIONS PRIVATE LIMITED	VIRU	Pest Control
3.	AGFERM INNOVATIONS PRIVATE LIMITED	BOR/AAHAAR	Growth Enhancement
4.	AGFERM INNOVATIONS PRIVATE LIMITED	LUSH	Nutrient
5.	AGFERM INNOVATIONS PRIVATE LIMITED	ENHANCE	Nutrient
6.	AGFERM INNOVATIONS PRIVATE LIMITED	SAPPLUS	Pest Control
7.	AGFERM INNOVATIONS PRIVATE LIMITED	CANOPY	Pest Control
8.	AGFERM INNOVATIONS PRIVATE LIMITED	NOBOR	Pest Control
9.	AGFERM INNOVATIONS PRIVATE LIMITED	MYKO	Growth Enhancement


Seal: 
ECOCERT INDIA PVT. LTD.
WeWork, 11th Floor, 11B101,
Authorized Signatory RMZ Lighthouse Commercial
M/s ECOCERT - Bengaluru, Karnataka, India

Bio Fertilizers

Myko, Lush, Aahaar



MYKO

Product Base

- Consists of like PSB, KSB, Acetobacter, Azotobacter, Rhizobium, VAM and biopesticides like *Trichoderma viride*, *Paecilomyces lilacinus*, *Pseudomonas sps*, *Metarhizium anisopliae*, *Bacillus thuringiensis*, *Bacillus subtilis* and natural phyto elicitors , humic ,fulvic and amino acids.

Impact/Output

- Helps in enriching the soil micro flora and nourishes the soil and plant with beneficial microbial population providing increased availability of nutrion for crops as crop protection in the rhizosphere.

Dosage

- Dose -2kg -4 kg/acre
- It can be applied mixing with Vermicompost's or fully decomposed FYM's, in the period ideally 10 to 15 days before planting.



LUSH

(GRANULES AND LIQUID)

Product Base

- A proprietary formulation developed with *Bacillus megaterium* (Zinc activating bacteria), naturally derived humic acid, amino acid, growth promoting microbial Extract and a proprietary bio fungicide and insecticide.
- CFU -1 X 10⁷ cells/gm zinc solubilizing microbes
- pH: 6.5 to 7.0.

Impact/ Output

- Helps in root development.
- Protects the roots from early fungal infections caused by Phytophthora, Pythium, Rhizoctonia and Fusarium
- Protects the growing root from cutting and chewing pests.
- Helps to mobilize zinc available in the soil, Strengthens the plant and controls lodging
- Improves nutrient absorption.
- Improves tillering/branching.

Dosage

- Cereals, Pulses, Oilseeds (5Kg/Acre); Vegetables, Fruit Crops, Sugarcane and Plantation Crops (10Kg/Acre)
- For foliar application @3 to 4 ml per litre.





AAHAAR

Product Base

- A unique bio formulation that acts as a source of major nutrients derived from natural sources.

Impact/Output

- Contains major nutrient Nitrogen, Phosphorus, Potash in bio available form which is readily absorbable by plants making the plants healthy and providing inputs necessary for good growth.
- Helps in quick correction of nutritional deficiency.

Dosage

- Can be applied at all growth stages across crops
- Dose - 5ml/litre of water spray or for soil application ,dose can be suggested based on crop grown and soil conditions.
- 25kg per acre as NPK granules fortified with Ca,Mg, S and Zn.



Bio Fungicides

Canopy, Badha



CANOPY

Product Base

- A product of biological origin prepared from microbial extracts of *Streptomyces gresius* and *Streptomyces violacious* through fermentation process.

Impact/ output

- Has contact as well as systemic action.
- Manages the diseases as well as improves plant resistance to disease attack
- Recommended for management of major diseases including symptoms such as wilting of roots/ plant, leaf spots, damping off, root/stem/fruit rot including diseases such as Bakanae and Blight disease of Rice, wilt diseases and downy mildew.

Dosage

- 3-4 ml per litre of water by spray.
- 700 ml per acre by soil application.



Test results of selected products against Phytophthora (Late blight disease) in Potato					
Treatments	Conc	Percent of infected leaves			
		R1	R2	R3	Avg
Untreated check		18.5	20.1	24.4	21
Metalaxyl + Mancozeb	2.5 g/lit	0	0.3	0.6	0.3
Metalaxyl + Mancozeb	3.5 g/lit	0	0.1	0.5	0.2
COC	4g/lit	13.2	15.6	12.7	13.8
Mancozeb	3g/lit	5.1	3.6	4.1	4.3
Canopy	3ml/lit	0	0	0.2	0.1
Efficacy trials conducted at GBPUAT , Pantnagar					

Canopy @ 3ml/lit of water showed good management of late blight of Potato in trials conducted by GBPUAT Pantnagar

Percent reduction of Phytophthora (Stem Rot) disease in Pointed gourd				
Treatments	Conc	Days after spraying		
		6th	12th	20th
Metalaxyl 8%+ Mancozeb 64WP	0.25%	25	23.1	53.3
Copper Sulphahte + Amino Acid	0.15%	41.6	61.5	60
COC 50 WP	0.40%	16.6	46.1	66.6
Mancozeb 75% WP	0.25%	8.4	23.1	6.6
Canopy	0.30%	75	81.5	80
Efficacy trials conducted at BCKV , Kalyani				

Impact of Canopy in Trials on Management of Phytophthora sp in Pointed Gourd by BCKV , Kalyani



BADHA

Product Base

- A liquid formulation containing biological extracts of Plant Growth Promoting Rhizobacteria (*Pseudomonas sp.*).

Impact/ Output

- Recommended as a preventive measure for management of fungal diseases.
- Has also very good plant growth promoting and phosphate solubilising properties - When applied in soil

Dosage

- 2-3ml per litre of water
- Can be applied through seed coating, soil application or spraying.



Impact of Badha seed treatment on Paddy seed nursery and germination vigour at Chevalla, Telangana July 2020

VIRU

Product base

- Is a formulation prepared using combination of biological and plant extracts fortified with several phyto-elicitors and amino acids of organic origin.

Impact/ Output

- Viru enters the plant through the stomatal opening and the epithelial tissue. Inhibits the multiplication of infected cells and boosts natural disease resistance in plants, stops progress of the virus in the plants, thus suppressing the disease.
- Protects both prophylactically and curatively.

Dosage

- 2.5 gm per litre to be sprayed in combination with 2.5 ml of SAP Plus.



Field observations 28th July 2020



Fusarium wilt symptoms in Root

Symptoms of Botrytis (*B.elliptica*) infestation in stem, leaf and flowers. Brown and Necrotic patches, blackening of flowers



Field observations 5th August 2020

Canopy @ 3ml per litre applied through drip on 31st July 2020.

Virus



Spread of the diseases arrested . New leaves and areas green in colour

Field observations 11th August 2020

Canopy @ 3ml per litre applied through drip on 31st July 2020.

Viru @ 2.5 gm per litre sprayed on 2nd August 2020

Canopy 3ml and Viru 2.5 gm sprayed on 7th August 2020



Spread of the diseases completely arrested . New parts emerging are completely free of disease symptoms including new flowers.

Bio Insecticides

Acarina, Sap Plus, Kamla, Nobor, Shoot, Viru

SAP PLUS

Product Base

- action.
- The extracts act as stomach poison. The product also contains organic compounds which act as nerve poison and also contains a blend of different microbial extracts including *Streptomyces rochei* which has contact cum systemic mode of uses cuticle degradation

Impact /Output

- Recommended for management of sucking pests thrips, aphids and white fly as well as mites.
- Impacts the cuticle lining in insect body, weakens specially at nymphal stages and removes them from attacking the crops.
- Effective quick control as well as long term management of pests

Dosage

- 2-3ml per litre of water.

Sap Plus 2.5 ml + Viru 2.5 gm is ideal for control of most viruses and associated vectors



Mosaic Virus with White Fly Impacted Field 28th July

Impacting Crop and Fruit.

Farmer Ravinder Reddy 9948318927, Chevalla, TS



Applications

VIRU 2.5gm+ SAP PLUS 2.5ml on 29th July

CANOPY 3ml + BADHA 2ml + Bor 0.3 ml on 5th August

No Symptoms of mosaic virus or white fly on 10th August



Applied Viru 2.5 gm plus Sap Plus 2.5 ml per litre on 29th July
Applied Canopy 3ml+ Badha 2ml + Bor 0.3ml per litre on 5th August

Anthracnose symptoms in Dolichos 28th July



Clean fruits - Dolichos 10th August



Fully managed the Virus and Anthracnose issues

ACARINA

Product Base

- Contains biological extracts of *microbial origin* - Streptomyces hygroscopicus , Paecilomyces fumosoroseus

Impact/output

- Recommended for management of all types of mites.
- Very good in managing chemical resistant populations of mites and other sucking pests.
- The extracts of Paecilomyces dissolve the cell wall components, penetrates through insect's body draining the nutrients and eventually killing the pest. The extracts of Streptomyces targets the gut cells triggering the gut cells to start compulsive reverse hydrolysis and drain the haemolymph leading to death of the insect
- Does not leave any kind of residue in crops

Dosage - 3ml per litre of water



Results in Tea for Management of Thrips and Mites by SAP PLUS and ACARINA

NAGRIJULI TEA ESTATE
 P.O. : NAGRIJULI, PIN-781368
 DIST. : BAKSA (B.T.A.D.), ASSAM
 TEL. : 03624-212551
 E-mail : nagrijuli@gmail.com

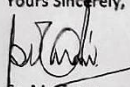
Food Safety System Certification 22000

To,
 Dr. Arun K. Nair
 Vedagna BioAg India LLP
 Hyderabad,
 Telangana

Date:- 14.09.2020

Dear Sir,

Reference to your mail dated 28.08.2020 we are sharing with you the details of usage and control of your products "ACARINA and SAP" viz-a-viz the conventional pesticide being used at our farm.

Yours Sincerely,

 Sr. Manager,
 Nagrijuli Tea estate

ROSSELL TEA
 DIVISION OF ROSSELL INDIA LIMITED
 Regd. Office : Jindal Towers, Block 'B', 4th Floor, 21/1A/3, Darga Road, Kolkata-700017
 CIN : LD1132WB1994PLC C063513, Website : www.rosselltea.com
 Tel : 91 33 22903035, 22801120, Fax : 91 33 22875269, E-mail : corporate@rosselltea.com

TRIAL OF BIO PESTICIDE CHEMICALS

ACARINA V/S HEXYTHIAZOX

ACARINA									
SEC.NO	AREA	DOSE IN 200 LTRS OF WATER	1ST DATE OF SPRAYING	KILL %	2ND DATE OF SPRAYING	KILL %	CONTROL TILL	CONTROL PERIOD after 2nd Spray	INFESTATION LEVEL
DB 20	2.00	400 ML	23.06.2020	70	29.06.2020	97	13.08.2020	45 DAYS	MILD

SPINOMESIFEN /HEXYTHIAZOX


DB 20	2.00	200 ML	23.06.2020	83	03.07.2020	92	01.08.2020	28 DAYS	MODERATE
-------	------	--------	------------	----	------------	----	------------	---------	----------

SAP V/S THIACTOPRID

SAP PLUS									
SEC.NO	AREA	DOSE IN 200 LTRS OF WATER	1ST DATE OF SPRAYING	KILL %	2ND DATE OF SPRAYING	KILL %	NEXT INFESTATION	CONTROL PERIOD after 2nd Spray	INFESTATION LEVEL
NG 14	7.00	400 ML	12.07.2020	62	21.07.2020	92	18.08.2020	28 DAYS	MILD

THIACTOPRID

NG 14	7.00	200 ML	12.07.2020	68	19.07.2020	85	03.08.2020	14 DAYS	MODERATE
-------	------	--------	------------	----	------------	----	------------	---------	----------


 Sr. Manager
 NAGRIJULI TEA ESTATE

NOBOR

Product base

- Is a combination of biological inputs.
- Contains natural extracts which impart resistance against lepidopteran pests , chewing and biting insects

Impact/Output

- Recommended for management of early instars of lepidopteran insect pests, chewing and biting insects. Nobor impacts the gonadotropic hormones of the insect, resulting in impaired development and reduction in population. It also acts as a repellent and anti-feedant.
- Can be used in all crops.
- Compatible with other spray products like water soluble fertilizers and plant growth regulators.

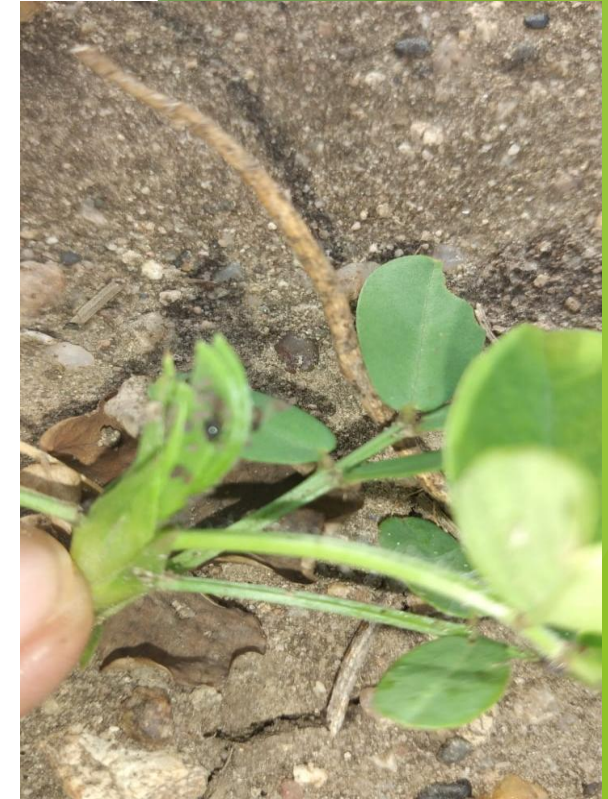
Dosage

- For caterpillars, chewing and biting pests, fruit flies 2.5 to 3 ml per litre
- Can be used as for baiting of *Spodoptera* sp using NOBOR 750 ml to 1 litre mixed with 10kg Rice Bran and 1 kg Jaggery , broadcasted across the field.



Crop Situation and Damage before application

Crop: Groundnut



Live larvae in plant and soil- actively feeding, at various larval stages in the field. Date of Application 11.07.20

Three Days after application



Larvae start turning sluggish and blackening of the larvae is seen as Nobor begins to take effect. Observation on 14.07.20

Six days after application



Weakened, blackened and immobile larvae. 80 % larval population controlled as per field observations. Observation on 17.07.20

Brinjal Crop 70 to 75 days old , at Chevalla, Telangana last week of July 2020



Shoot and Fruit Borer activity and damage in Brinjal receiving regular pesticidal spray (last two sprays: Coragen & Delegate) prior to NOBOR application.

Brinjal Crop 85 days old , at Chevalla, Telangana first week of August 2020



Borer activity has ceased after two sprays of NOBOR

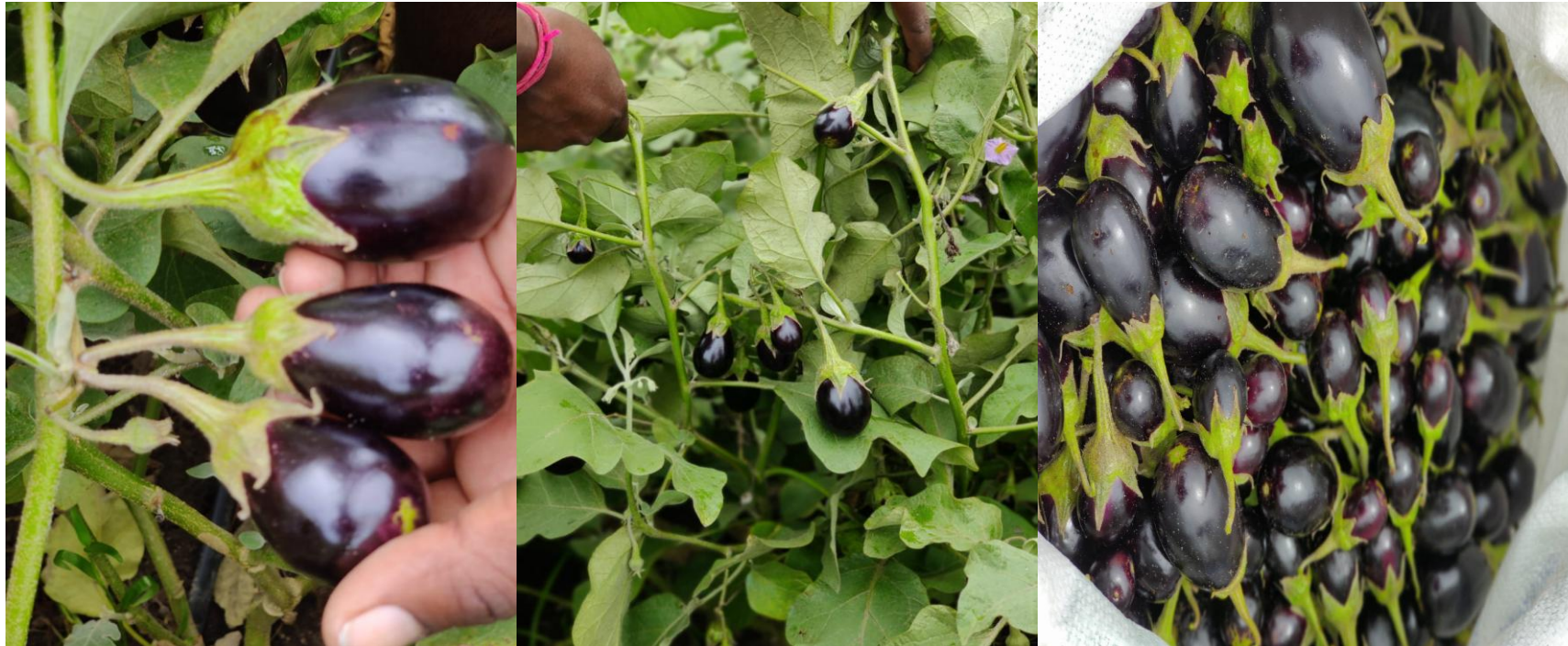
Brinjal Crop 85 days old , at Chevalla, Telangana first week of August 2020



Borer activity has ceased after two sprays of NOBOR

Harvested Brinjal and farmer feedback

Farmer Feedback
Narender Reddy ,Chevalla
,Telangana
9948318927



- Usually no chemical works in this season, but Nobor worked upto 90%.
- Sprayed Coragen an Delegate earlier no use.
- Could see pest in almost every fruit. Was planning to remove the crop because of this menace.
- This application is also less costly compared to Delegate



KAMLA

Product base

- Contains extracts of microbial origin - *Streptomyces rochei* & *Streptomyces albus*.

Impact/Output

- Recommended for management of plant nematodes, termites and white grub.
- Degrades the cell wall containing chitin in the target insects. Also works in disrupting the stomach of insects
- Provides long period of control of targeted pests.
- Can be used in all crops.
- Compatible with other Fertilizer and Pesticide products

Dosage

- For nematode management 500 - 700 ml per acre soil application.



SHOOT

Product Base

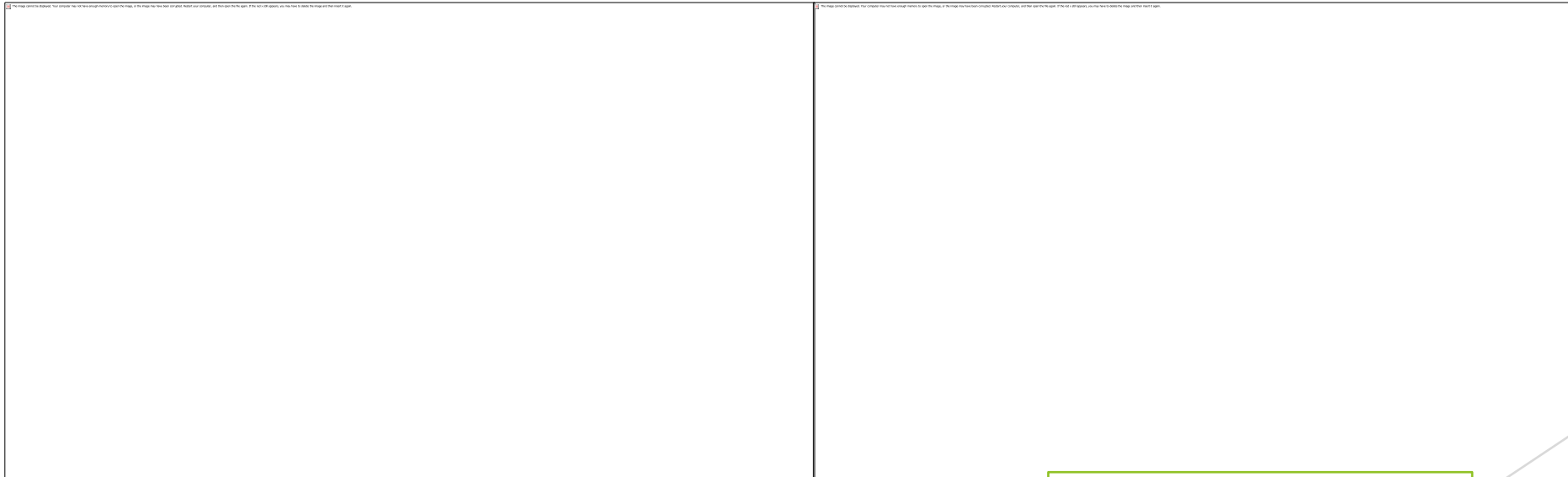
- Is combination of two organic compounds in nano form, formulated with biological extracts (*Bacillus amyloliquifaciens*, *Streptomyces cyaneus*) and various solubilization agents that acts as chitin inhibitor which results in mortality as well as disrupts the molting hence gives long term control

Impact/Output

- Impacts the midgut membrane of insects, removing them from crops within 48 hours of contact
- Recommended for management of leaf miner, mealy bug, stem & shoot borers and white fly and other sucking pests

Dosage

- 2-3 ml per litre of water for spray.
- Can be applied for stem and shoot borers by slow mixing of 500 to 750 ml with 5 kg Lush granules and 5 kg sand and even broadcasting in field 10-15 days after transplanting / sowing.



Leaf miner damage in Gerbara - Polyhouse condition before spray of Shoot3.0ml

Leaf miner damage in Gerbara - Polyhouse five days after spraying. No spread. Clearing of larvae and tunnels

Bio Efficacy of Shoot for Tomato Leaf Miner - field trials through UAS Dharwad

Treatments	After 1st spray		After 2nd spray	
	7days after leaf plucked		7days after leaf plucked	
	Maggot/leaf	Adult/leaf	Maggot/leaf	Adult/leaf
Shoot @ 1ml/lt	1.06	0.78	0.44	0.34
Shoot @ 2ml/lt	0.68	0.38	0.33	0.18
Shoot @ 3ml/lt	0.59	0.11	0.18	0.14
Neemazal @ 2ml/lt	0.8	0.32	0.26	0.18
Dimethoate 30 EC @	0.8	0.54	0.28	0.22
Monocrotophos @	1	0.84	1.05	0.95
Untreated check	1.38	1.32	1.6	1.46

Impact of application of **Shoot** on management of Tomato Leaf miner- maggots and adults in field trials by UAS Dharwad

Percentage reduction of white fly (*Dialures pallida* population in different days after treatment

Treatments	Conc	Observations			
		4days after 3rd spray	8days after 3rd spray	12days after 3rd spray	16days after 3rd spray
Shoot	0.05%	88.04	86.41	78.82	36.8
Shoot	0.10%	94.22	91.92	82.25	55.4
Neem Seed extract	5.00%	77.97	73.29	58.29	26.31
Confidor	0.02%	89.49	88.54	83.12	51.31
Nuvan	0.10%	81.12	78.93	59.6	58.64
Untreated check		0	0	0	0

Total of 3 sprays taken at 15 day interval

Field trials conducted at BCKV Kalyani on Betelvine

Bio efficacy Studies on the impact of **Shoot** on management of White Fly in Betelvine conducted by BCKV, Kalyani

BACTRAP

	PARAMETER	CONVENTIONAL (SEX PHEROMONES)	BACTRAP LURES (additional features)	BENEFITS OF BACTRAP LURES
1.	Source/Origin	❖ Female Insects	▪ Host - Plants	▪ Wide coverage and longevity ensured
2.	Phenomenon	❖ Mating Disruption Controls Male Adults	▪ Prevents Egg Laying. Also controls gravid Female Adults	▪ Drastic reduction in population control achieved
3.	Time of Trap Installation	❖ During the Flowering Stage	▪ Pre and Post Flowering Stage. Suitable at all developmental stages	
4.	Effectiveness/ Longevity	❖ Controls only the male adults and hence difficult to subside the entire population and control the life cycle.	▪ Since it avoids oviposition. Life Cycle can be disrupted & leads to reduced population. Minimal Impact on the crop Damage	
5.	Environmental Impact	❖ Pheromones Synthesized Chemically Has Minimal Effects	▪ Ovipositional cues are naturally available in the Host which are Biodegradable and has no effect on Environment/ Ecosystem	



BAC TRAP

LOADED ; 1.5ML Q-LURE
 COVERAGE : 8 PER ACRE
 LONGEVITY : 2 MONTHS

Agriculture use only
 *The perform ance varies on wind speed, temperature and climate

Batch No.	Date of Mfg.	Date of Exp.	M.R.P. (Incl. of GST)
Km20201	June2020	May2021	75/-

Marketed By: Bee Safe Farming Pvt.Ltd, FF-7, Maharaja Copmplex, Main Patel road, Delhi-110008
 Manufactured by : Agferm Innovations, plot No.28A, KIADB Industrial Area, Hoskote, Bangalore-562114

Lures are also available for another species of Cucurbit fruit fly
-Dacus ciliatus

BEESAFE LURES & FALL ARMY WORM MANAGEMENT in MAIZE



- Install and Use pheromone BEESAFE lures (5-8per acre) combined with application application of poison baits (Rice Bran+ Jaggery+ Nobor) from 15-20 day crop onwards.
- Start early Application of Bio Pesticide Like NOBOR with capability to damage eggs and young larvae if required after poison baiting. Repeat application once in 7 days to avoid any build up of population.
- Maintain Good soil Moisture and Soil Fertility - Healthier plants can withstand pest infestation and damage better. Imbalanced Fertilizer use (socially excessive N use) can increase oviposition by FAW. Balanced fertilizer use with increased organic matter and soil microbial activity is critical.



Bio Growth Enhancers

Bor, Enhance

BOR

Product Base

- Contains plant vitamins, amino acids, trace nutrients and poly saccharides

Impact/Output

- Helps in boosting flowering and fruit setting.
- Improves resistance in crops to abiotic stresses.
- Can be used in all crops

Dosage

- 0.2 to 0.4 ml spray per litre of water



ENHANCE

Product Base

- An unique bio stimulant containing *Lactobacillus*, that is a combination of several useful amino and amino acids, rich in proline and natural hormones.

Impact/ Output

- Helps in complete utilization of all biochemical and physiological reserves of the plant, improving the storage capacity of crops and impacting crop yields by improving the translocation of photosynthates.
- Very effective for improving the colour and size of the fruit, recommended for all crops.

Dosage

- Spray at the rate of 1 ml/ litre of water
- 100-125ml per acre



CITRUS DOSES

Product	Foliar	Uproay	Dose
Badha	-	3ml / ltr	water
Canopy	-	3ml / ltr	water
BeR	-	50ml / 400ltr	water
Lusy-Liquid	-	3-5ml / ltr	water
Acarina	-	2-3ml / ltr	water
Shoot	-	3-5ml / ltr	water
Sap	-	1ml / ltr	water
Enhance	-	0.5-1ml / ltr	water

CITRUS DOSES

⇒ Soil Application ←

AGE	Products	Dose
1-3 YEAR	Myko	20 Gms
	Lusy GR	50-70 Gms
	Badha	15 ml
4-11 YEAR	Myko	35 Gms
	Lusy GR	100-150 Gms
	Badha	25-30ml
	Canopy	25-30ml
11 year Above	Myko	50 Gms
	Lusy GR	200-250 Gms
	Badha	40-50 ml
	Canopy	50 ml



Kinnow orchards using full solution in district Sirsa , Haryana



Full solution followed by a farmer in Saharanpur, UP

THANK YOU

For more details write to us at :

enquiry@beesafefarming.in or call us/
WhatsApp us at 9901061804 or 9311166993