



A 100% natural, cost-effective solution for repelling insects, controlling diseases on the farm.



FABORG



100% NATURAL

What is AARKA Concentrate™ made of?

AARKA is made of 95% concentrated residue of **Calotropis**, which is mixed with 5% of **various Ayurvedic plants** that repel pests and boost the growth, and immunity of the plants. The additional plants include notchy, neem, hadjod, eucalyptus, papaya leaves, ginger, pine, etc. AARKA plant extract is enhanced with **21 essential microbes**

HOW AARKA IS MANUFACTURED?



Calotropis and other natural raw materials are wild-harvested or procured from the neighboring farmers



Fibers from the Calotropis plant are extracted and made into a 100% chemical-free vegan wool alternative fabric called WEGANOOOL™

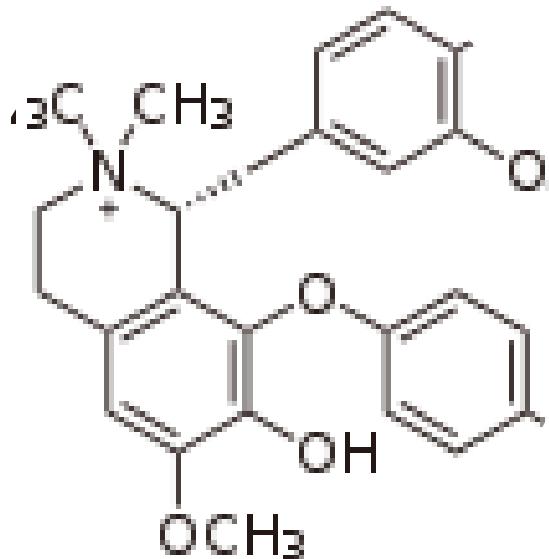


The concentrated residue from fiber extraction along with other herbs is converted into fermented plant extract and enhanced with the essential microbes



AARKA does not kill insects, it repelles them efficiently!

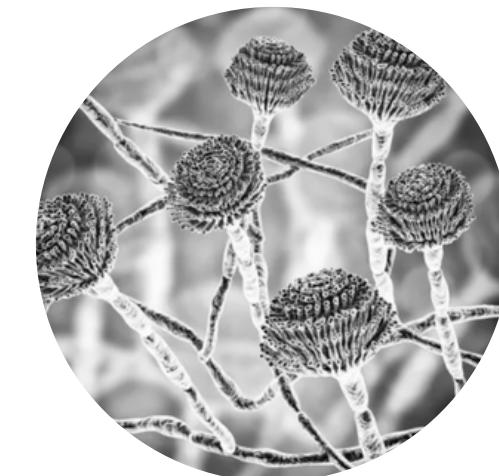
HOW DOES AARKA WORK?



1. Alkaloids

AARKA is packed with alkaloids and tannins, that are unfavored by many herbivorous insects. Alkaloids create indigestion for insects and make them leave your crops to look for better food source.

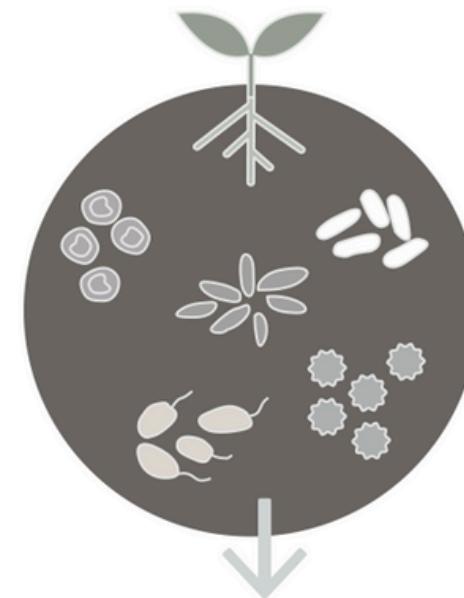
Calotropis plant extract activates a larvicidal activity toward young larvae for a wide range of insects.



2. Anti-fungal, -bacterial and -viral properties

AARKA is a one-stop solution to a wide range of fungal, viral, or bacterial-related problems on the farm.

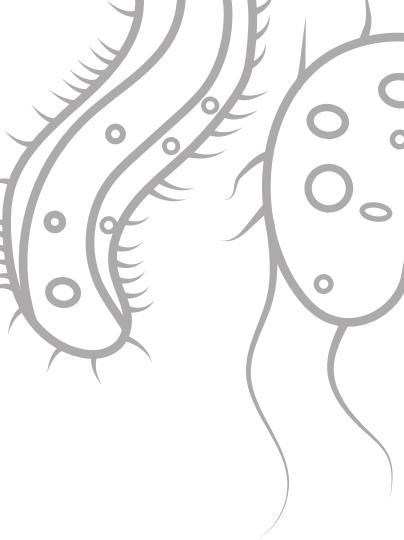
LIKE OUR GUT, THE SOIL REQUIRES
ESSENTIAL MICROBES TO MAINTAIN
HEALTH OF THE SOIL AND ENHANCE
NUTRIENT ABSORPTION FOR THE
PLANTS!



3. Essential microbes (EM)

In natural farming, bringing back Essential Microbes is key. They fix NPK, boost plant health, fight infections, and break down residues of pesticides and fungicides, ensuring a thriving and sustainable agricultural ecosystem.

Trichoderma Viridi, Trichoderma Harzianum, Pseudomonas, Beauveria Bassiana, Verticillium Lecanii, Metarhizium, Pokoronia, Paeciliomyces, Bacillus Thuringiensis, Azospirillum, Azotobacter, Phospo Bacteria, Potash bacteria, Rhizobium, Zinc Bacteria, Silica Bacteria, Sulphur Bacteria, Mycelium, Bacillus pumilus, Cyanobacteria, Lactobacillus



ESSENTIAL MICROBES PERFORM BETTER IN AARKA THAN IN CONTROLLED LAB ENVIRONMENT!

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 0413-2964096 / 09786620685

E-mail: ems@auroville.org.in

Test Report

Customer name: FABORG Pvt.Ltd.

Nature of sample: Liquid

Sample ID:

Sample received: 31/08/2024

Analysis completed: 31/08/2024

Sample collected: By customer

Lab ID: 96

S.no	Sample ID	Control (CFU/ml)	Sample (CFU/ml)	Result*
1.	Paecilomyces lilacinus	4.7×10^6	4.8×10^6	NAP
2.	Phosphorus solubilizing bacteria	4.2×10^6	4.1×10^6	NAP
3.	Verticillium lecanii	5.6×10^6	5.5×10^6	NAP
4.	Metarhizium	3.8×10^6	3.9×10^6	NAP
5.	Beauveria bassiana	3.2×10^6	3.5×10^6	NAP
6.	Azospirillum	2.0×10^6	6.0×10^6	NAP
7.	Potassium solubilizing bacteria	6.3×10^6	7.4×10^6	NAP
8.	Trichoderma viride	4.0×10^6	7.0×10^6	NAP
9.	Pseudomonas fluorescens	2.0×10^6	6.0×10^6	NAP
10.	Bacillus thuringiensis	2.0×10^6	3.0×10^6	NAP
11.	Rhizobium	2.5×10^6	3.7×10^6	NAP
12.	Azotobacter	7.0×10^6	9.0×10^6	NAP
13.	Silica Solubilizing	3.0×10^6	5.0×10^6	NAP
14.	Trichoderma harzianum	7.0×10^6	1.2×10^6	NAP
15.	Pochonia	5.0×10^6	8.0×10^6	NAP
16.	Sulfur mobilizer bacteria	1.1×10^6	1.4×10^6	NAP
17.	Zinc solubilizing bacteria	2.3×10^6	2.9×10^6	NAP
18.	Mycelium	1.7×10^6	2.2×10^6	NAP

* NAP - No Antimicrobial Properties. Method of Testing: IS:14648:2005

Note: The antimicrobial solution (AARKA) diluted 1:60 with water. Percentage wise it is 1.67%. Then pure culture sample added and mix thoroughly. Contact time 30 min. Samples diluted 0.1%; 1.0%; 10% and added to Petri dishes by pour plate method.

Analyst *R. Padmaja*

Lab executive *Dinesh*



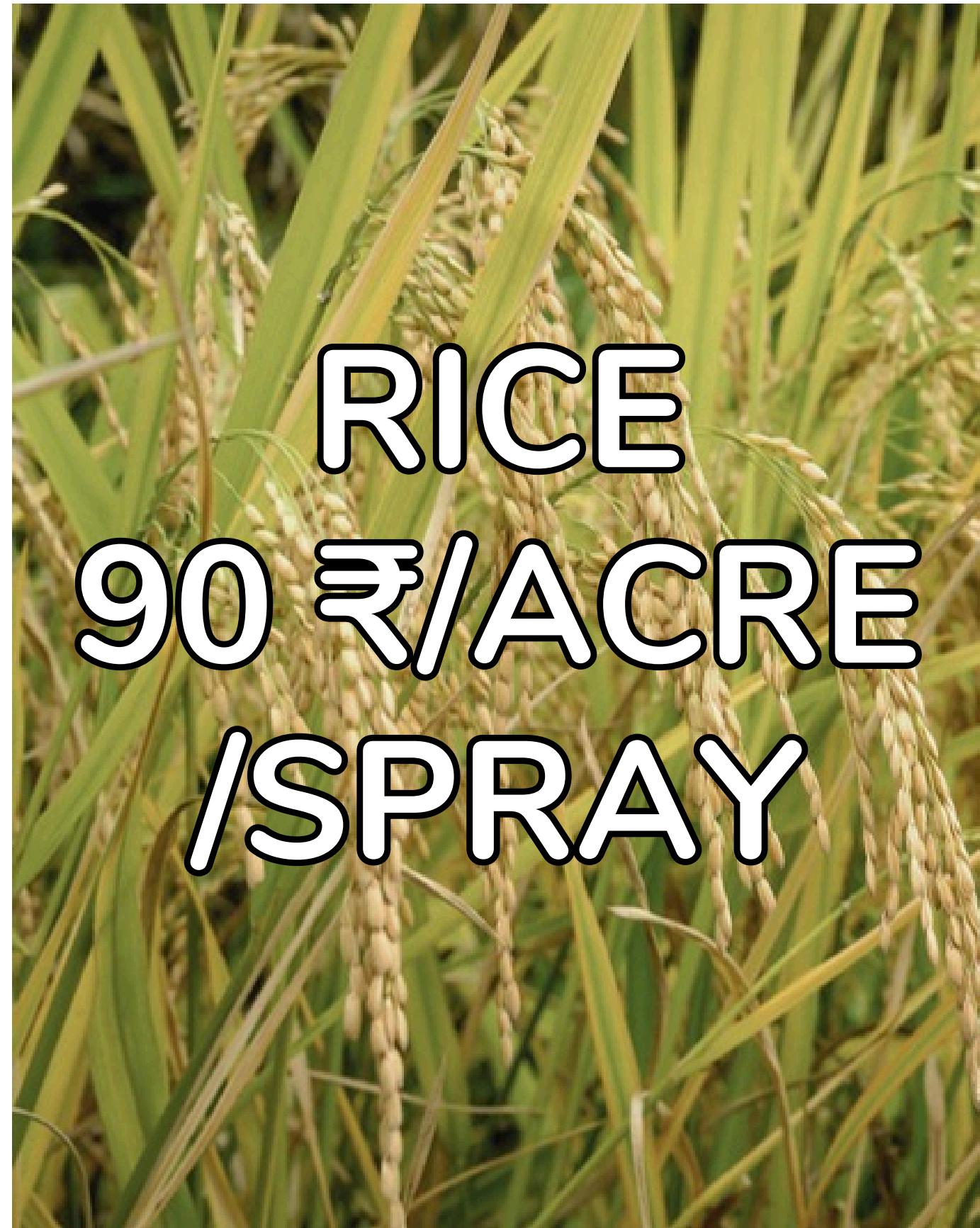
TRANSITIONING FROM CHEMICAL TO NATURAL FARMING

Does not matter if you are already practicing natural farming or just starting with it - AARKA will work at any stage!

AARKA plant extract powered with the EM is an affordable one-stop solution for 99% of the problems on the farm!



AARKA has replaced over
170 metric tonnes
of pesticides and delivered
excellent results as pest
repellent, disease control
and growth booster on
55+ crops



**RICE
90 ₹/ACRE
/ISPRAY**

Coconut, Cashew, Tomato,
Cucumber, Mango, Banana,
Papaya, Dragon Fruit,
Lemon, Orange, Guava,
Avocado, Murengai
(Drumstick), Areca Nut,
Turkey Berry, Passion Fruit,
Coffee, Tea, Pepper

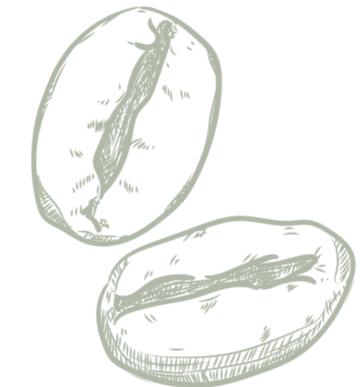
Watermelon, Melon,
Strawberry, Chilies,
Spinach, Peanuts, Potato,
Carrots, Turmeric,
Cauliflower, Onion,
Cabbage, Brinjal, Bitter
Guard, Beatle Leaf, Long
Guard, Bottle Guard,
Zucchini

Cardamom, Sugarcane,
Rice, Urad Daal, Pearl
Millet, Finger Millet, French
Beans, Mung Beans, Flat
Beans (Avarakkai)
Marigold, Tuberose,
Sampangi, Rose, Jasmine,
Cotton and more...

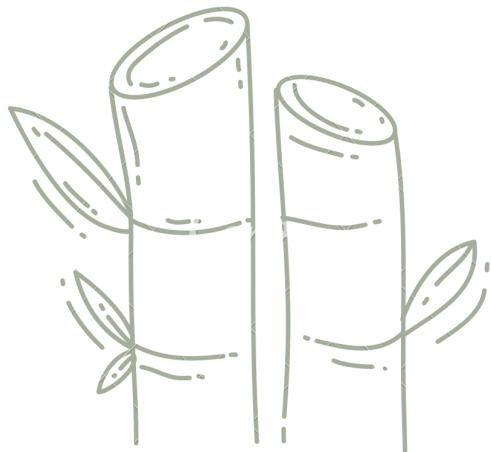
RICE FARM
Visible result in
24 HOURS



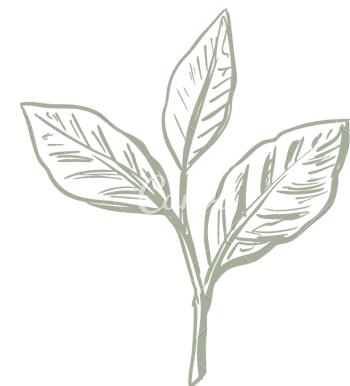
Cardamom



Coffee



Sugarcane*



Tea

AARKA DILUTION WITH WATER & APPLICATION INSTRUCTIONS FOR CARDAMOM, COFFEE, TEA & SUGARCANE

Dilution for spraying - 1:60

Instruction: Perform the first 3 sprays in 10 days intervals, then spray once in 20 days. *Sugarcane requires 2- 3 sprays in 15 days intervals beginning of the crop season.

Dilution for soil denching - 1:60

Instruction: Drench the soil once a month. 2-3 liters of AARKA per acre diluted with water.



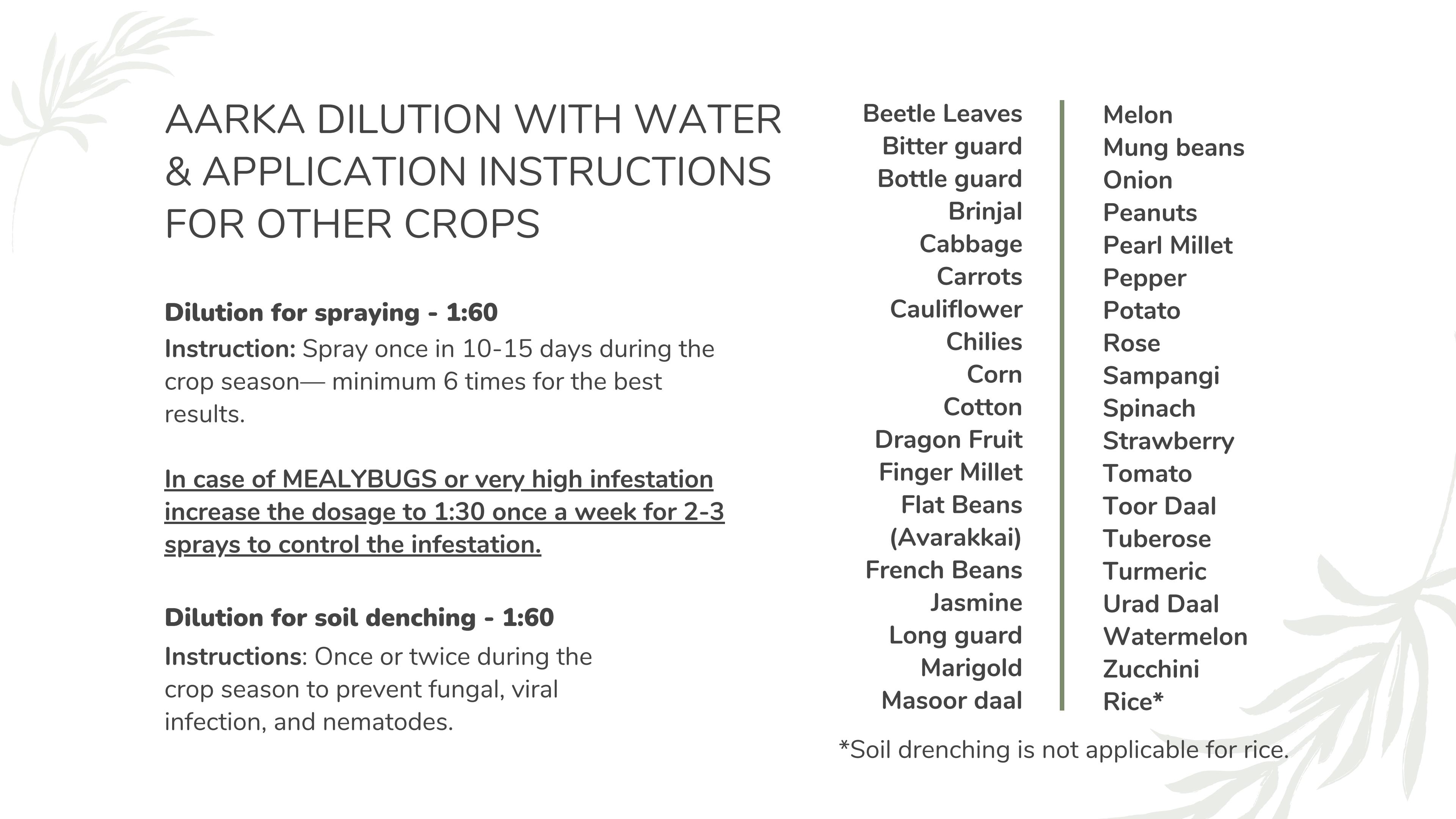
AARKA DILUTION WITH WATER & APPLICATION INSTRUCTIONS FOR FRUITING TREES

Dilution for spraying - 1:60

Instruction: Spray the flowers, leaves, and stems thoroughly. It will protect the plant from leaf miners, leaf eaters, and stem borers. Spray every 10-15 days at the time of flowering, otherwise once a month would prevent larger infestation.

Dilution for soil denching - 1:60

Instruction: Pour 5 liters of the mixture to each plant closer to the root to prevent any fungal or viral infection. It also boosts cell division and improves the immunity of the plant. Best to do it in the rainy season - before and during the flowering (at least twice a year!) The alkaloids stay active in wet soil, therefore protecting plants and preventing any kind of fungal diseases whole winter.



AARKA DILUTION WITH WATER & APPLICATION INSTRUCTIONS FOR OTHER CROPS

Dilution for spraying - 1:60

Instruction: Spray once in 10-15 days during the crop season— minimum 6 times for the best results.

In case of MEALYBUGS or very high infestation increase the dosage to 1:30 once a week for 2-3 sprays to control the infestation.

Dilution for soil denching - 1:60

Instructions: Once or twice during the crop season to prevent fungal, viral infection, and nematodes.

Beetle Leaves	Melon
Bitter guard	Mung beans
Bottle guard	Onion
Brinjal	Peanuts
Cabbage	Pearl Millet
Carrots	Pepper
Cauliflower	Potato
Chilies	Rose
Corn	Sampangi
Cotton	Spinach
Dragon Fruit	Strawberry
Finger Millet	Tomato
Flat Beans (Avarakkai)	Toor Daal
French Beans	Tuberose
Jasmine	Turmeric
Long guard	Urad Daal
Marigold	Watermelon
Masoor daal	Zucchini
	Rice*

*Soil drenching is not applicable for rice.

RECIPES FOR OTHER BENEFICIAL INPUTS

Oil mixtures	Neem oil	500 ml	150	50ltr	1 ltr	13.2 INR
	Mahua oil	500 ml	70			
	Castor oil	500 ml	70			
	Pongamia oil	500 ml	70			
	Water	48 ltr	0			
	Soap nut	2 kg	300			
	TOTAL		660			
Fish aminoacid Preperation time: 40 dasy	Fish waste	20 kg	500	50 ltr	500 ml	21 INR
	Jaggery	20 kg	800			
	Ripe Banana (waste)	20 kg	800			
	TOTAL		2100			
Copper curd mixture Preperation time: 15 dasy	Curd	5 ltr	200	50 ltr	1 ltr	15 INR
	Copper waste	1 kg	500			
	Water	45 ltr	0			
	Jaggery	1 kg	50			
	TOTAL		750			

Total cost per 200 ltr barrel: 50 INR

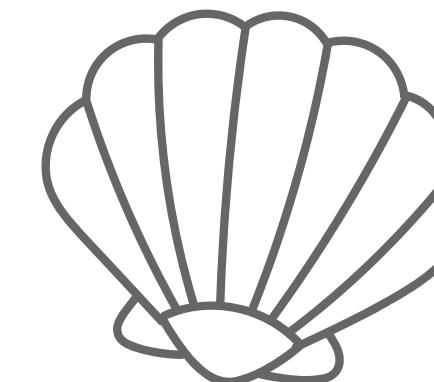
Curd and Coconut milk mixture <i>Preperation time: 10 days</i>	Curd	5L	200	50 LTR	1 to 3 L	6.2 to 18.6 INR
	Coconut milk	5L	60			
	Water	40 L	0			
	Jaggery	1 KG	50			
	TOTAL		310			
Panchakaviya <i>Preperation time: 30 days</i>	Desi cow dunk	12.5 KG	0	50 Ltr	1 L	54.5 INR
	Desi cow urine	7.5 L	0			
	Cow's milk	7.5 L	350			
	Cow's ghee	2.5 KG	1200			
	Jaggery	1.25 KG	75			
	Curd	15 L	900			
	Ripe banana	30 no	200			
	TOTAL		2725			
Jeevaamirtham <i>Preperation time: 48h</i>	Desi cow dunk	10 KG	0	50 L	1L	4 INR
	Desi cow urine	10 L	0			
	Green gram dhaal powder	1 KG	150			
	Forest soil	1 KG	0			
	Jaggery	1 KG	50			
	Water	25 L	0			
	TOTAL		200			

Total cost per 200 ltr barrel: 197.5 INR

MAKE YOUR ALKALI SOLUTION

BALANCE ACIDITY CREATED BY THE MICROBES, AND
INCREASE POTASH CONTENT IN THE SOIL!

	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
Bio-potash Preperation time: 10 days	Ash	15 KG	75	50 L	1 L to 3 L	1.5 to 4.5 INR
	Rainwater	50 L	0			
Seashell lime	Seashell lime powder	10 KG	200		50g	1 INR



REMEMBER TO FEED YOUR ESSENTIAL MICROBES!



	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
Cake mixture Preperation time: 3 days	Peanut cake	2 KG	100	100 LTR	3 to 5 L	21 to 35 INR
	Sesame cake	2 KG	100			
	Coconut cake	2 KG	100			
	Mahua cake	2 KG	100			
	Pongamia cake	2 KG	100			
	Neem cake	2 KG	100			
	Castor cake	2 KG	100			
	Water	100 L	0			
	AARKA Concentrate	100 ML	6			
	TOTAL		706			
Rice Water Preperation time: 48h	Rice	1 kg	30	50 LTR	3 to 5 L	1.8 to 3 INR
	Water	50 L	0			
	TOTAL		30			

NB! AARKA ALSO REPELLS MOSQUITOES

Easy steps of application



1. Remove all the mosquito breeding areas on your premises
2. Outdoor. Dilute AARKA in a **1:60** ratio with water. Spray the mixture thoroughly on absolutely **ALL SURFACES** like walls, cement areas, plants, and grass, even behind the compound if possible. The bigger the area, the better. Think of it like applying Odomos outdoors.
3. Indoor (optional). Add one cap (5-10ml) of AARKA along with the cleaning agent to the bucket of water. Use this water for cleaning surfaces or mopping.
4. Perform the treatment **ONCE A WEEK** at a convenient time. When needed, repeat the treatment more often or increase the concentration of AARKA in the spray.



SCIENTIFIC RESEARCH PAPERS ON CALOTROPI



Calotropis gigantea – Arka Uses, Dose, Side Effects, Ayurveda Details

rb.gy/zvxj2



Calotropis fibres for Textile Applications

<https://rb.gy/tjx1x>



Antibacterial & medicinal properties of calotropis:

<https://globalresearchonline.net/journalcontents/volume4issue2/Article%20024.pdf>

<https://rb.gy/4wkm8>

<https://www.ijrar.org/papers/IJRAR1AFP027.pdf>

<https://www.researchgate.net/publication/236006006>



Calotropis dried leafs used as fodder:

<https://rb.gy/i8cg3>

<https://www.feedipedia.org/node/588>



Calotropis mosquito larvicidal, ovicidal, and repellent activity

<http://bdpsjournal.org/index.php/bjp/article/view/468>



Nematodes

https://www.fortunejournals.com/ijpaes/admin/php/uploads/411_pdf.pdf



Fusarium

<https://rb.gy/d41ra>

<https://rebrand.ly/d7ed45>



Papaya Melaybug

<http://www.ijirst.org/articles/IJIRSTV4I1069.pdf>



Plutella Xyllostella

<https://rebrand.ly/b26c43>



Cotton Leafworm

<https://rebrand.ly/ugo1xd6>

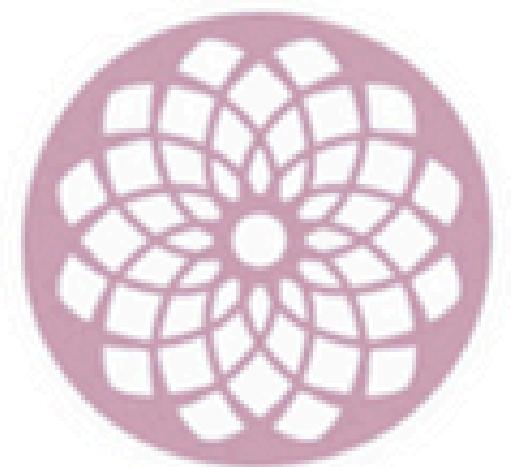


Cotton Bollworm

<https://rebrand.ly/e49d2c>

<https://rebrand.ly/87wpx89>

<https://rebrand.ly/574d81>



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