



A plant-based fermented organic manure made with Calotropis and traditional botanical ingredients, developed to support soil health and crop growth.



Manufactured by

FAB^{ORG}



100% NATURAL

What is AARKA CONCENTRATE™ made of?

AARKA CONCENTRATE™ is made using Calotropis plant residue from FABORG's fibre-extraction process, combined with 15 traditional Ayurvedic botanical ingredients. The formulation is fermented using a practice inspired by Jeevamrutham.



FROM CALOTROPIS FIBRE TO AARKA

1.



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

2.



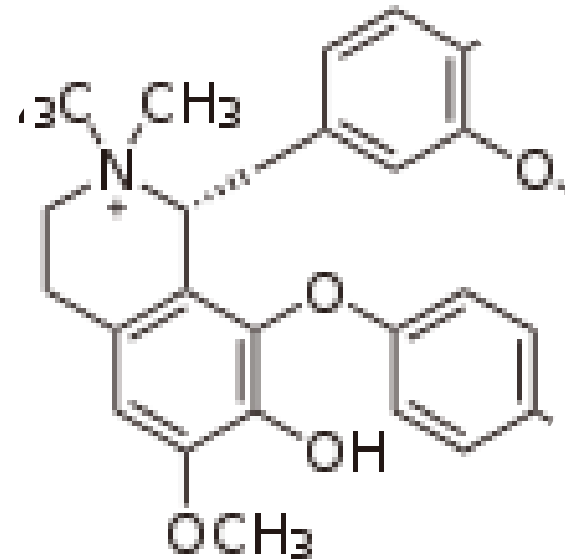
Calotropis fibres are extracted and developed into WEGANOOL™, FABORG's innovative plant-based textile.

3.



The remaining plant material is blended with herbs and fermented using traditional Jeevamrutham-inspired inputs.

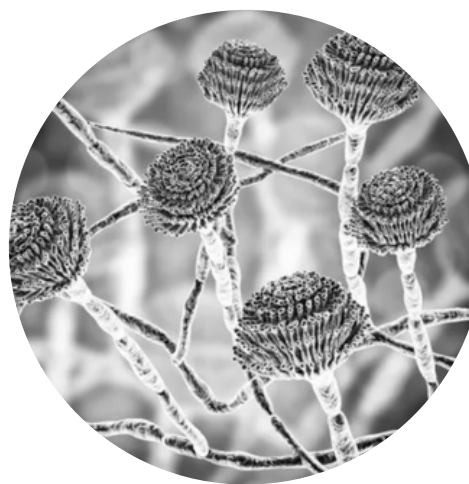
HOW DOES AARKA WORK?



1. Alkaloids

Calotropis contains naturally occurring plant compounds, including alkaloids and tannins. Their biological properties are subjects of scientific research.

Published studies have examined the effects of selected Calotropis extracts on insect species under specific experimental conditions.



2. Research on Calotropis extracts

Calotropis extracts have been studied for activity against selected microorganisms. These studies provide scientific background on the plant.

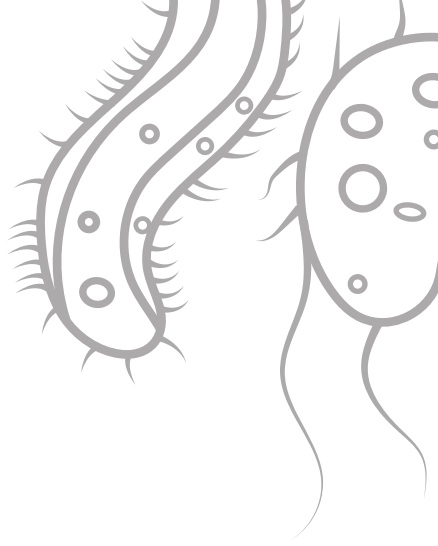
**BOTANICAL
KNOWLEDGE
FOR NATURAL
FARMING**



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

3. TRADITIONAL FERMENTATION & SOIL LIFE

AARKA draws inspiration from traditional Jeevamrutham fermentation, using indigenous cow dung and forest soil sourced from the Western Ghats alongside Calotropis residue and Ayurvedic botanicals. Soil microorganisms are important for nutrient cycling and healthy soil functions. FABORG also encourages farmers to learn about locally prepared natural farming inputs.



PRELIMINARY AGAR-MEDIUM
TEST: MICROBIAL GROWTH
OBSERVED WITH AARKA

Despite the antimicrobial, antifungal and antiviral properties of its plant ingredients, AARKA CONCENTRATE™ showed excellent compatibility with the beneficial microorganisms tested, supporting stronger microbial growth than the conventional agar medium.

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. Sample received: 31/08/2024
Nature of sample: Liquid Analysis completed: 31/08/2024
Sample ID: 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. Padmanabhan*

Lab executive *[Signature]*



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

TRANSITIONING FROM CHEMICAL TO NATURAL FARMING

AARKA brings Calotropis-based botanical ingredients and traditional fermentation into an accessible natural-farming input.



350+ METRIC TONNES
OF AARKA CONSUMED

AARKA CONCENTRATE™ has been used across a wide range of Indian farming systems and crop categories, supported by farmer experiences and on-field observations.

80+ CROPS
40+ PESTS & DISEASES



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

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

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

ORANGE FARM
Fresh growth in
1 WEEK



Orange

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

Dilution for spraying - 1:60

Perform the first 3 sprays at 10-day intervals, then spray once in 15 days.

Dilution for soil drenching - 1:60

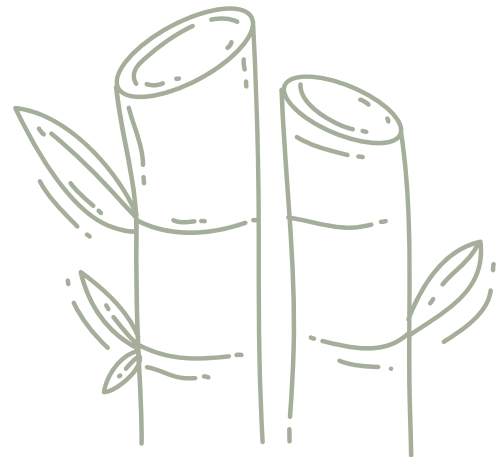
Drench the soil once a month. 2.5 liters of AARKA per acre diluted with water.



Cardamom



Coffee



Sugarcane*



Tea

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

Dilution for spraying - 1:60

Perform the first 3 sprays in 10-day intervals, then spray once in 15 days. *For sugarcane, begin with 2–3 sprays at 15-day intervals during the early crop stage.

Dilution for soil drenching - 1:60

Apply 2–3 litres of AARKA per acre, diluted with water, once a month to support root-zone health and plant growth.



AARKA DILUTION WITH WATER & APPLICATION INSTRUCTIONS FOR FRUITING TREES

Dilution for spraying - 1:60

Spray flowers, leaves and stems thoroughly. Apply every 10–15 days during flowering and once a month during other growth stages.

Dilution for soil drenching - 1:60

Apply approximately 5 litres of diluted solution per tree near the root zone, preferably before and during flowering.

Regular applications support healthy root development, nutrient availability and overall plant vitality.



AARKA DILUTION WITH WATER & APPLICATION INSTRUCTIONS FOR OTHER CROPS

Dilution for spraying - 1:60

Apply every 10–15 days throughout the crop cycle. Regular applications are recommended to support healthy plant development.

Dilution for spraying for thrips - 1:60

Spray once every 4 days throughout the crop season.

Dilution for soil drenching - 1:60

Instructions: Minimum once a week during the crop season to prevent fungal, viral infection, and nematodes.*Soil drenching is not applicable for rice.

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



NATURAL FARMING RECIPES | ADDITIONAL BENEFICIAL INPUTS

	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
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			

Estimated ingredients cost per 200 L barrel: ₹50

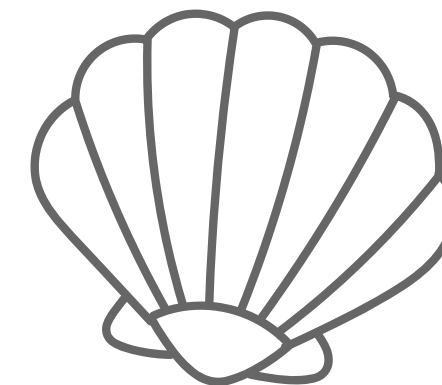
	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
Curd and Coconut milk mixture <i>Preperation time: 10 days</i>	Curd	5L	200	50 LTR	1 to 3 L	6.2 to 18.6 INR
	Coconut milk	5L	60			
	Water	40 L	0			
	Jaggery	1 KG	50			
	TOTAL		310			
Panchakaviya <i>Preperation time: 30 days</i>	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			

Estimated ingredients cost per 200 L barrel: ₹197.50

HOW TO PREPARE AN ALKALI SOLUTION

Contact FABORG or your farmer representative for detailed preparation instructions in your native language.

	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
Bio-potash <i>Preperation time: 10 days</i>	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



FEEDING BENEFICIAL SOIL MICROORGANISMS



	Ingredients	Qty	Cost inr	Total batch qty	Barrel 200 ltrs	
					Dose	Cost
Cake mixture <i>Preperation time: 3 days</i>	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 <i>Preperation time: 48h</i>	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 | CALOTROPIS

Botanical compounds and antimicrobial studies

2013

Antimicrobial activity of *Calotropis procera* and isolation of four flavonoid glycosides

Nenaah | World Journal of Microbiology & Biotechnology

DOI: <https://doi.org/10.1007/s11274-013-1288-2>

2016

Chemometric profile & antimicrobial activities of leaf extract of *Calotropis procera* and *Calotropis gigantea*

PubMed

URL: <https://pubmed.ncbi.nlm.nih.gov/27936921/>

2021

Important insights from the antimicrobial activity of *Calotropis procera*

Amini et al. | Arabian Journal of Chemistry

DOI: <https://doi.org/10.1016/j.arabjc.2021.103181>



BOTANICAL SCIENCE | AGRICULTURAL POTENTIAL

2021 A review on phytochemical constituents and pharmacological potential of *Calotropis procera*

Wadhwani et al. | RSC Advances

DOI: <https://doi.org/10.1039/D1RA06703F>

2021 An Overview of the Characteristics and Potential of *Calotropis procera* From Botanical, Ecological, and Economic Perspectives

Frontiers in Plant Science

DOI: <https://doi.org/10.3389/fpls.2021.690806>

2026 *Calotropis procera* as a plant-based insecticide: Its distribution, phytochemistry, insecticidal and agricultural applications

Phurailatpam et al. | Journal of Experimental Zoology India

DOI: <https://doi.org/10.51470/jez.2026.29.2.1123>





Nematodes

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



Papaya Melaybug

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



Plutella Xylostella

<https://rebrand.ly/b26c43>



Cotton Leafworm

<https://rebrand.ly/ugo1xd6>



Cotton Bollworm

<https://rebrand.ly/e49d2c>

<https://rebrand.ly/87wp89>

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



Fusarium

<https://rb.gy/d41ra>

<https://rebrand.ly/d7ed45>



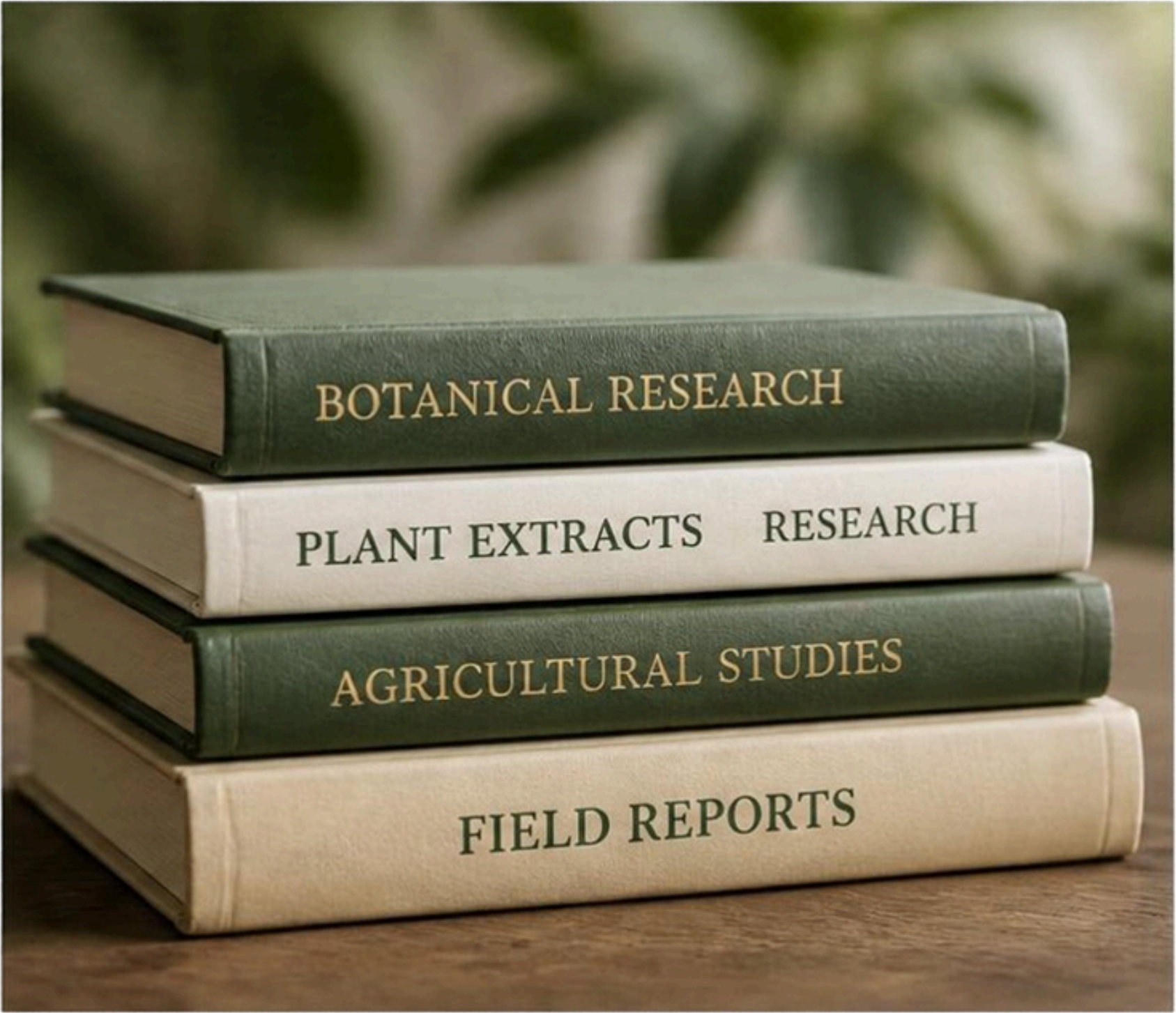
RESEARCH REFERENCES | HOW TO READ THE EVIDENCE

PLANT EXTRACT STUDIES	Research on selected <i>Calotropis</i> parts and extracts
AARKA LABORATORY OBSERVATIONS	Separately documented tests of the finished formulation
FARMER EXPERIENCE	Field reports and testimonials

BUILDING ON CALOTROPIS RESEARCH

Published research helps us understand Calotropis. AARKA tests and farmers' experiences add practical insights.

See the linked studies for full research details.





AARKA CONCENTRATE™

@aarkanaturalfarming · 2.98K subscribers · 89 videos

We work directly with farmers to make natural farming effective and affordable. ...more

faborg.in/aarka

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For you





GOVERNMENT OF TAMIL NADU
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

C.R.No- VPM/MKM/W-019/OF/2025-2030

Valid From – 27.11.2025 to 26.11.2030

LICENSE FOR BIO FERTILIZER & ORGANIC FERTILIZER

File No.C3/11905/2025

FORM – A2
ACKNOWLEDGEMENT

NEW

See Clause 8 (3)

Received from **D. Gowri Shankar, FABORG Private limited, No.91/2, Sri Meerambigai Gorden, Kali Kovil Street, Chinna mudaliyar chavadi, Kottakuppam, Villupuram, 605 104** a complete Memorandum of Intimation along with Form-O, Fee of **Rs.2250/-** Challan bearing Number. 20241022020089 Dated.22.10.2025

2. The acknowledgement shall be deemed to be the letter of authorization entitling the applicant to carry on the business as applied for a period of 5 years from the date of issue of this Memo of acknowledgement unless suspended or revoked by the competent authority.

Renewals : 26.11.2030

Details of Companies for carrying out Fertilizers Business

Sl.No	Name of the Firm	Expiry Date
1	As per the S.O.3054(E) Sec.3, Rule 1955 dated.23.09.2016, the License for the Production of Liquid Fermented Organic Manure. This Products comes under FCO 1985- Organic Fertilizer – set out the standards of Schedule- IV(See Clause 2(h) and (q) Part A Specifications of Organic Fertilizers.	26.11.2030

Date: 27.11.2025



Signature of Notified Authority
Assistant Director of Agriculture
(Quality Control)
O/o Joint Director of Agriculture
Villupuram - 605 502.

27/11/25

GRANTED PATENT: 489722

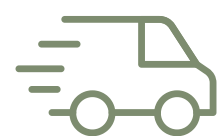




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