



INTERNATIONAL YEAR OF
**RANGELANDS AND
PASTORALISTS**
2026



IYRP 2026 Pastoral Bio-Economy Awareness Initiative – 3 One Day Workshop on Pastoral Bio-Resources for Sustainable Agriculture: Organic Fertilizers, Bio-Inputs and Enterprise Development

Date: 26 June 2026 Time: 09:30 AM – 04:00 PM

Venue: MABIF Hall, Agricultural College and Research Institute, Madurai

Organized by

Thozhuvam Farmer Producer Company Limited (FPCL)

India's First Pastoralist Enterprise, initiated and supported by NABARD–MABIF

Concept Note

The **International Year of Rangelands and Pastoralists (IYRP) 2026** highlight the important role of pastoral communities in sustainable food production, biodiversity conservation, climate resilience, and rural livelihoods. As part of this global initiative, **Thozhuvam Farmer Producer Company Limited (FPCL)** is organizing a one-day workshop on “**Pastoral Bio-Resources for Sustainable Agriculture: Organic Fertilizers, Bio-Inputs and Enterprise Development.**”

Pastoral communities have long utilized livestock-based resources such as dung, urine, crop residues, medicinal plants, and naturally occurring microorganisms to maintain soil fertility and agricultural productivity. These resources form the foundation of a **Pastoral Bio-Economy**, where biological materials are transformed into value-added products that support sustainable agriculture, environmental conservation, and rural enterprise development.

With increasing concerns over soil degradation, rising cultivation costs, climate variability, and excessive dependence on chemical inputs, there is a growing need to promote affordable and environmentally sustainable alternatives. Organic fertilizers and bio-inputs derived from pastoral bio-resources improve soil health, enhance microbial activity, reduce external input costs, and contribute to resilient farming systems.

This workshop is designed to provide practical training on the preparation, application, quality management, value addition, and marketing of livestock-based organic fertilizers and bio-inputs. The programme will also explore entrepreneurship opportunities for farmers, women, youth, and community-based organizations interested in establishing small-scale enterprises around organic agricultural inputs.

Objectives

1. To promote awareness of pastoral bio-economy and livestock-based sustainable agriculture.
2. To provide hands-on training in the preparation and application of organic fertilizers and bio-inputs.
3. To encourage the adoption of eco-friendly alternatives to chemical fertilizers and pesticides.
4. To develop entrepreneurial skills in the production, value addition, and marketing of organic inputs.
5. To promote circular economy approaches that convert livestock and agricultural wastes into valuable products.
6. To support organic farming, kitchen gardening, rooftop gardening, and climate-resilient agricultural practices.

Resource Person / Workshop Trainer

Mr. K. V. Senthilkumar

Organic Fertilizers and Bio-Inputs Expert

President, Vazhvom Farmers Club

Progressive Farmer and Natural Farming Practitioner

Mr. Senthilkumar has extensive experience in the preparation and promotion of livestock-based organic fertilizers, bio-inputs, microbial formulations, and natural farming technologies. He has trained farmers, self-help groups, and rural entrepreneurs in sustainable agriculture, low-cost farming practices, and organic input production. The workshop will include practical demonstrations and hands-on training sessions led by him.

Training Topics

Organic Fertilizers and Bio-Inputs

- Panchagavya
- Fish Amino Acid (FAA)
- Herbal Cow-Based Pest Repellent
- Jeevamrutham
- Herbal TheMore Solution
- Effective Microorganisms (EM)
- Waste Decomposer Culture (WDC)
- Agni Astra

Practical Sessions

Participants will gain hands-on experience in:

- Selection and processing of raw materials
- Preparation of organic fertilizers and bio-inputs
- Fermentation and microbial multiplication techniques
- Application methods for agricultural crops, kitchen gardens, and rooftop gardens
- Quality control, storage, and shelf-life management
- Demonstrations and practical exercises
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Enterprise Development Components

- Small-scale production models
- Packaging, labeling, and branding
- Cost estimation and pricing strategies
- Value addition and product diversification
- Marketing and market linkages
- Business opportunities for FPOs, SHGs, and rural entrepreneurs

Target Participants

- Organic Farmers
- Livestock Farmers
- Rooftop and Terrace Garden Enthusiasts
- Women Self-Help Groups (SHGs)
- Farmer Producer Organizations (FPOs)
- Rural Youth and Entrepreneurs
- Students and Research Scholars
- Agricultural Extension Personnel
- NGOs and Community-Based Organizations

Expected Outcomes

- Enhanced knowledge of pastoral bio-resources and their applications in sustainable agriculture.
- Increased adoption of organic fertilizers and bio-inputs.
- Improved understanding of waste-to-wealth and circular bio-economy approaches.
- Strengthened entrepreneurship opportunities based on livestock-derived resources.
- Greater integration of pastoral knowledge into sustainable farming systems.
- Improved environmental sustainability and climate resilience.

Conclusion

The workshop will serve as a platform for knowledge sharing, skill development, and enterprise promotion in the field of pastoral bio-resources and sustainable agriculture. By integrating traditional pastoral knowledge with scientific innovations, the programme seeks to strengthen organic farming systems, improve rural livelihoods, and demonstrate the potential of pastoral bio-resources in building healthy soils, sustainable food systems, and a vibrant rural bio-economy.

Convener

Dr. P. Kabilan

Pastoral Bio-Economist

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INTERNATIONAL YEAR OF RANGELANDS AND PASTORALISTS 2026

Grass Guards

IYRP 2026 PASTORAL BIO-ECONOMY AWARENESS INITIATIVE - 3

ONE DAY WORKSHOP ON PASTORAL BIO-RESOURCES FOR SUSTAINABLE AGRICULTURE: ORGANIC FERTILIZERS, BIO-INPUTS AND ENTERPRISE DEVELOPMENT

FROM PASTORAL BIO-RESOURCES TO HEALTHY SOIL, HEALTHY FOOD & HEALTHY FUTURE

DATE: 26 June 2026
TIME: 09:30 AM - 04:00 PM
VENUE: MABIF Hall, Agricultural College and Research Institute, Madurai

LEARN TO PREPARE (ORGANIC FERTILIZERS & BIO-INPUTS)	HANDS-ON PRACTICAL SESSIONS	ENTERPRISE DEVELOPMENT COMPONENTS	TARGET PARTICIPANTS
<ul style="list-style-type: none">FruchtavayaFish Amino Acid (FAA)Herbal Cow-Based Pest RepellentJeevamrutamHerbal Thermo SolutionEffective Microorganisms (EM)Waste Decomposer Culture (WDC)Agri Astro	<ul style="list-style-type: none">Raw material selection & processingPreparation of organic fertilizers and bio-inputsFermentation & microbial multiplication techniquesApplication methods for crops, kitchen gardens & rooftop gardensQuality control, storage & shelf-life managementDemonstrations & practical exercises	<ul style="list-style-type: none">Small-scale production modelsPackaging, labeling & brandingCost estimation & pricing strategiesValue addition & product diversificationMarketing & market linkagesBusiness opportunities for FPOs, SHGs & rural entrepreneurs	<ul style="list-style-type: none">Organic FarmersLivestock FarmersRooftop & Terrace Garden EnthusiastsWomen SHGsFPD MembersRural Youth & EntrepreneursStudents & ResearchersAgricultural Extension PersonnelNGOs & CBOs

KEY BENEFITS

- Enhanced knowledge of pastoral bio-resources and their applications
- Increased adoption of organic fertilizers and bio-inputs
- Waste-to-wealth & circular bio-economy approaches
- Strengthened entrepreneurship opportunities
- Integration of pastoral knowledge into sustainable farming systems
- Improved environmental sustainability & climate resilience

RESOURCE PERSON / WORKSHOP TRAINER
Mr. K. V. Senthikumar
Organic Fertilizers & Bio-Inputs Expert
President, Vairavan Farmers Club
Progressive Farmer and Natural Farming Practitioner

CONVENOR
Dr. P. Kabilan
Pastoral Bio-Economist
Thozhuvam FPCL
Madurai, Tamil Nadu, India

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Transform Livestock Bio-Resources into Sustainable Agriculture and Rural Enterprises