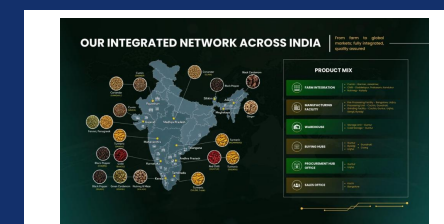
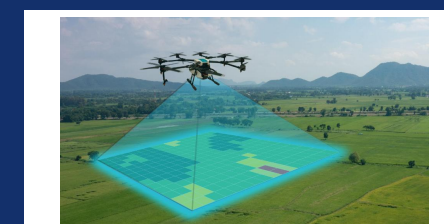
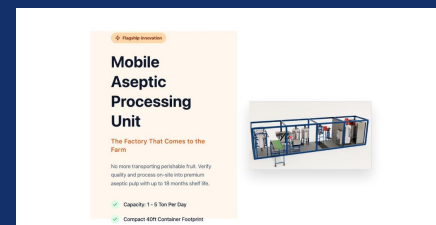


Agri-Food, Climate & Rural Innovators of the ILF Portfolio

62 startups across six agri sub-sectors, each mapped to the ILF AgriTech Classification

Indigram Labs Foundation · September 2026

62 startups · 6 agri sub-sectors



About this Compendium

Startups are grouped into six agri sub-sectors; each profile leads with the problem and technology, followed by validation, key facts, contact and ILF classification code



Indigram Labs Foundation

- DST-recognised Technology Business Incubator and the incubation arm of ISAP India Foundation
- Focus on agri-tech, climate-tech, food technology and rural livelihoods
- Supports startups through incubation, mentoring, market access and seed support under national schemes
- Seed fund support directly and through the Benzai 10 AIF across a portfolio of 80+ startups

ILF AGRITECH CLASSIFICATION v2.3

Every startup carries one primary code for where in the value chain it creates value (A–D), plus facet codes for the enabling services (E) and technologies (F) it uses.

A Before the Farm Inputs, testing, genetics	B Inside the Farm On-farm production systems
C After the Farm Handling, storage, trade, retail	D Secondary Agriculture By-products, bio-materials, bio-energy
E Enabling Services Finance, extension, carbon markets	F Technology & Data IoT, AI, drones, satellites, biotech

A–D: primary axis, one code per startup · E–F: facets, any number · E can be primary for pure service businesses

Portfolio at a Glance

62 startups across six agri sub-sectors, with the core technology of each

 12	 9	 6	 11	 11	 13
Precision Farming, Inputs & Mechanisation	Livestock, Dairy & Fisheries	Post-Harvest, Storage & Agro-Processing	Agri Markets, Supply Chain & Rural Finance	Climate, Clean Energy & Circular Bio-economy	Food, Nutrition, Health & Bio-sciences
Farmonaut Satellite & geospatial AI Krishitantra Portable 30-minute soil analyser IndusTill FarmTech LoRa solar irrigation control SUIND Vision-based autonomous spray drones 4CLIMATE IoT & AI greenhouse automation Krishigati Electric multi-operation farm toolbar cultYvate IoT irrigation & paddy carbon MRV Balwaan IoT-enabled small farm machinery Stepupify Labs LFP battery e-farm machinery BIOME Technologies On-farm soil microbial test kit Shopton AI irrigation commerce & IoT gaoON Field services & seed R&D	Fishmongers Recirculating aquaculture & live-fish logistics Areete AI-IoT cattle health collar AniMeta Antibiotic-free ethnoveterinary care Doodhvale Farms Traceable farm-to-home clean dairy ORIGHT Milk-testing IoT & rural fintech Manjha Aquaculture inputs & advisory platform PashuBazaar Live-weight goat grading Krushal AI-led dairy animal-care services AquaX IoT pond monitoring & co-op aquaculture	Raheja Solar Food Processing Hybrid IoT solar dryers InnoFarms Containerised aseptic fruit processing New Leaf Dynamic Biomass-powered cold rooms Citrus Freight IoT reefer cold chain Hydrogreens (KANAJ) Modified-atmosphere storage barrels Vaag IoT smart warehousing & mandi data	Tractor Junction Farm-equipment marketplace Growcoms Blockchain-traced spice value chain TraceX AI sustainability & traceability Rang De P2P social lending for rural India Behtar Zindagi Farmer analytics & advisory commerce DigiGrain Solutions MSME supply chain & embedded finance Eximple Agentic AI for exports Poshn AI food-trade matching Bamboostan Farm-to-brand bamboo aggregation Myca Agentic AI & ML credit ONO Mandi digitisation & agri-credit	Farmers for Forests Drone & AI restoration monitoring Sajeevan Life Biochar & soil carbon Dharaksha Ecosolutions Stubble-based mycelium packaging Fermentech Labs Agro-waste to industrial enzymes AgriVijay Rural renewable-energy marketplace Renkuba Motion-free optical agrivoltaics Wastelink Food-waste upcycling to feed Farm Watt Biomass to Bio-CNG Shaiva GreenCarbon Certified biochar & torrefaction EcoRatings GenAI ESG & Scope 3 platform Marman IoT-verified rooftop solar	Farmley Farm-direct nuts & healthy snacks FarmDidi QR-traced food quality Genexis Biotech Precision-fermented proteins Praakritik Farmer-direct organic staples Feedsco Hyperlocal MSME-made snacks WholeLeaf Phyto-cannabinoid therapeutics Tribalveda Forest-fruit processing by tribal women KisaanSay FPC-sourced grocery brand Ruhvenile Biomedical Electricity-free oxygen & diagnostics Munico Foods Millet probiotic beverages Bettrlabs AI product-development platform Anmasa Made-to-order slow-milled atta Nutrisum Diabetes-friendly snacks

Portfolio Highlights

Selected achievements across the portfolio; details on each startup profile



Patents & IP

- Fishmongers: 19 patents applied, 4 granted, across RAS and live-fish transport†
- Krishigati: patent granted for an axle-less electric farm vehicle, plus two registered designs
- Fermentech Labs: 2 patents granted for its bioreactor; cultYvate: patent granted for water-flow regulation
- IndusTill: 6 patents†; 4CLIMATE: 5 patents†; Hydrogreens: 1 patent granted



Research & institutional partners

- Areete: collar co-developed with ICAR-NDRI and ADT Baramati experts
- Krishitantra: R&D centre at ICAR-IIRR; empanelled by UN-FAO
- Tribalveda: research partnerships with BARC and CSIR-CFTRI
- Renkuba: agrivoltaic pilot with PJTSAU, Telangana



Field validation & trials

- Fishmongers: up to 30x productivity vs ponds (WRI India)
- PashuBazaar: goat mortality cut from 30% to 6.8%
- SUIND: zero incidents across 1,000+ autonomous drone operations†
- AniMeta: ethnoveterinary cure rate above 82%†



National & international recognition

- Areete (2026) and Krishigati (2023): National Startup Awards
- AgriVijay: SolarX Challenge 2024 winner (ISA, MNRE, Invest India)
- 4CLIMATE: VertiFarm 2024 winner; Farmers for Forests: Elevate Prize
- New Leaf Dynamic: REFCOLD 2022 cold-chain award; Raheja Solar: UNEP Young Champion



Quality & certification

- Shaiva GreenCarbon: India's first Isometric-certified biochar producer
- Growcoms: member of the European Spice Association
- InnoFarms: ISO 22000; Krishigati: CE and ISO 9001:2015
- Genexis Biotech: Class 10,000 cleanroom and USFDA-GLP lab validation



Reach & livelihoods

- FarmDidi: 8 lakh customers†; ORIGHT: 3.5 lakh dairy farmers served†
- Krishitantra: 11 lakh+ soil tests facilitated; AniMeta: 3 lakh+ animals treated†
- Tribalveda: 5,000+ tribal women employed†; AgriVijay: 66,000+ women impacted†
- Raheja Solar: 8,000+ solar dryers†; Rang De: 15,000+ rural investees†

Mapping to the ILF AgriTech Classification

Each startup placed by its primary code (ILF AgriTech Classification v2.3): value-chain stage A–D, or E where the whole business is an enabling service

SUB-SECTOR	A Before the Farm	B Inside the Farm	C After the Farm	D Secondary Agriculture	E Enabling Services
Precision Farming, Inputs & Mechanisation 12 startups	Krishitantra A01.01.06 BIOME Technologies A01.01.06 Shoption A08.05	Farmonaut B01.03 IndusTill FarmTech B02.02 SUIIND B01.05.01 4CLIMATE B04.02 Krishigati B03.02 cultYvate B02.02 Balwaan B03.06 Stepupify Labs B03.06 gaoON B07.04			
Livestock, Dairy & Fisheries 9 startups	AniMeta A06.03.05 Manjha A07	Fishmongers B06.02 Areete B05.03 ORIGHT B05.08 Krushal B05.04 AquaX B06.03	Doodhvale Farms C10.03 PashuBazaar C06.08		
Post-Harvest, Storage & Agro-Processing 6 startups			Raheja Solar Food Processing C01.03 InnoFarms C07.03 New Leaf Dynamic C03.01.03 Citrus Freight C03.06 Hydrogreens (KANAJ) C02.02 Vaag C02.03		
Agri Markets, Supply Chain & Rural Finance 11 startups	Behtar Zindagi A08.05	Tractor Junction B03.08	Growcoms C06.04 TraceX C05.03 DigiGrain Solutions C06.01 Eximle C06.06 Poshn C06.01 ONO C06.02	Bamboostan D11.01	Rang De E01 Myca E01
Climate, Clean Energy & Circular Bio-economy 11 startups	AgriVijay A08.05	Renkuba B14.01.02 Marman B14.03	Wastelink C09.02	Sajeevan Life D07.01 Dharaksha Ecosolutions D07.03 Fermentech Labs D08.01 Farm Watt D06.01 Shaiva GreenCarbon D07.01	Farmers for Forests E07.01.04 EcoRatings E07.05.04
Food, Nutrition, Health & Bio-sciences 13 startups			Farmley C10.03 FarmDidi C10.03 Praakritik C10.03 Feedsco C10.03 KisaanSay C10.03 Munico Foods C08.06 Bettrlabs C07.07.06 Anmasa C10.03 Nutrisum C08.06	Genexis Biotech D08.04 WholeLeaf D09.03 Tribalveda D11.03	Ruhvenile Biomedical <i>not mapped*</i>

* Human-health technology with no agri-food node in v2.3. Full code, path and facet codes appear on each startup's profile.



SUB-SECTOR 1 OF 6

Precision Farming, Inputs & Mechanisation

Satellite analytics, soil diagnostics, autonomous drones, sensor-driven irrigation and electric farm machinery that raise productivity while cutting water, labour, chemicals and fossil fuel.

01 **Farmonaut**
Satellite & geospatial AI

02 **Krishitantra**
Portable 30-minute soil analyser

03 **IndusTill FarmTech**
LoRa solar irrigation control

04 **SUIND**
Vision-based autonomous spray drones

05 **4CLIMATE**
IoT & AI greenhouse automation

06 **Krishigati**
Electric multi-operation farm toolbar

07 **cultYvate**
IoT irrigation & paddy carbon MRV

08 **Balwaan**
IoT-enabled small farm machinery

09 **Stepupify Labs**
LFP battery e-farm machinery

10 **BIOME Technologies**
On-farm soil microbial test kit

11 **Shoption**
AI irrigation commerce & IoT

12 **gaoON**
Field services & seed R&D



Farmonaut

Farmonaut Technologies Pvt. Ltd.

Incubated with ILF 2023

Satellite and AI intelligence for agriculture, mining and traceability.

THE CHALLENGE

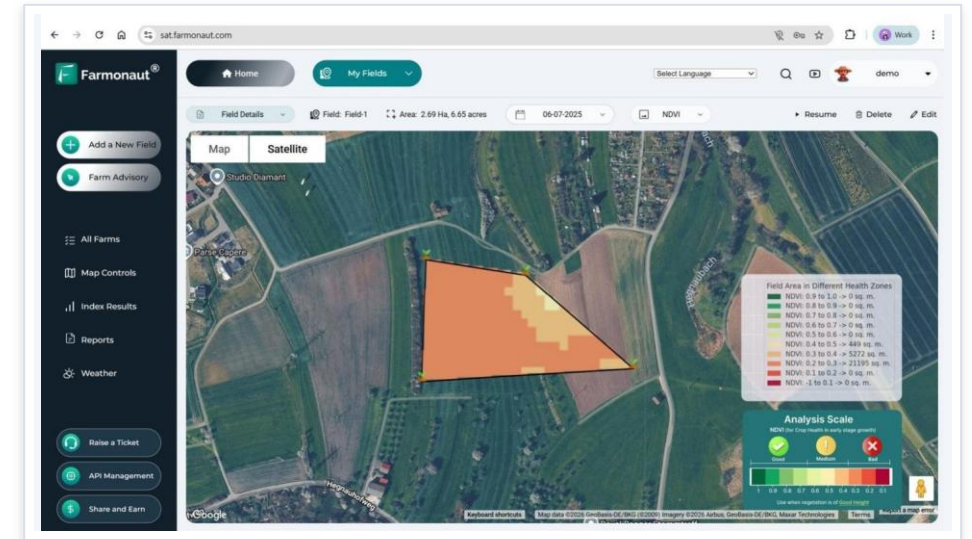
Ground-level data on farms, mines and supply chains is limited, costly and fragmented, slowing decisions and raising the cost of field surveys for businesses and governments.

SOLUTION & TECHNOLOGY

A deep-tech platform that converts large-scale satellite imagery and geospatial data into actionable intelligence: crop monitoring and risk assessment for agriculture, mineral exploration and mine planning for mining, and end-to-end supply-chain traceability, reducing reliance on costly field surveys.

ACHIEVEMENTS & VALIDATION

- NASSCOM Emerge 50 DeepTech Startup Award, 2023
- BCIC Deep-Tech Startup Award, 2024; AGI Award for Excellence in Agriculture, 2024
- CII Industrial Innovation Awards: Top 10 Sustainability Tech Startup, 2024
- Recognised as a DeepTech startup; three commercial verticals in the market



30

Customers†

3

Commercial verticals

25

Jobs generated†

FOUNDERS

Ankur Omar · Akash Omar

akash@farmonaut.com

ILF AGRITECH CLASSIFICATION **B01.03 Crop Scouting & Monitoring**

Inside the Farm › Precision Farming & Crop Intelligence | Facets: F04 · F02



Krishitantra

Klonec Automation Systems Pvt. Ltd. (brand: Krishitantra)

Incorporated 2017 · Mangaluru, Karnataka · R&D centre at ICAR-IIRR, Hyderabad

Krishi-RASTAA: a portable, automated soil analyser that delivers a 13-parameter soil test in about 30 minutes at village level.

THE CHALLENGE

India has about 3,800 soil-testing laboratories against an estimated need of 6 lakh, so testing is slow and centralised, rarely reaches smallholders, and fertiliser use stays generic rather than soil-specific.

SOLUTION & TECHNOLOGY

Krishi-RASTAA combines wet chemistry, electronics and software in a deskilled, fully automated machine that measures EC, pH, N, P, K, organic carbon, sulphur, boron, iron, zinc, copper, calcium and manganese, with five days of battery backup. Results flow to a mobile app and cloud, feeding AI-based soil-fertility maps, an AI farmer chatbot and the FARM 360 cropland carbon-assessment tool.

ACHIEVEMENTS & VALIDATION

- Technical and implementation support to the Ministry of Agriculture & Farmers Welfare for the Soil Health Card programme
- Co-developed with ICAR–Indian Institute of Rice Research, which hosts its R&D centre
- Empanelled by UN-FAO for its global soil doctors programme; patented product, with filings in the US and Israel
- Operations in India, Zambia, Kenya, the Philippines and Thailand; partners include Coromandel, Olam, NTT DATA and Rainforest Alliance

TECHNOLOGY BECOMES OUR TRUE ENabler

KRISHITANTRA



Krishi RASTAA
a portable soil analyzer

« CAN ANALYZE »

- 1 EC
- 2 pH
- 3 Nitrogen
- 4 Phosphorous
- 5 Potassium
- 6 Soil Organic Carbon
- 7 Sulphur
- 8 Boron
- 9 Iron
- 10 Zinc
- 11 Copper
- 12 Calcium
- 13 Manganese

« SALIENT FEATURES »

- Patented Product
Patent pending (US / Israel)
- Fully Automated
- 30 mins runtime
- 5 Days Battery Backup
- Joint developer institute
ICAR-IIRR
- UN-Fao empanelled for
global soil doctor
programme in 190
countries

12

11 lakh+

Soil tests facilitated
under Soil Health Card

30 min

Per soil test, at the farm

13

Soil parameters per test



CONTACT



krishitantra.com



sandeep.kondaji@krishitantra.com

ILF AGRITECH CLASSIFICATION **A01.01.06** Rapid and portable soil test kits

Before the Farm › Laboratory & Testing Services › Soil Testing & Analysis | Facets: F01 · F02 · F06



IndusTill FarmTech

IndusTill FarmTech Pvt. Ltd. (brand: AutoFarm)

CIN U35999PN2018PTC175050 · Incorporated 2018 · Pune, Maharashtra · Incubated with ILF 2019

Solar-powered, LoRa-mesh wireless irrigation and fertigation automation for Indian farms.

THE CHALLENGE

Manual irrigation and fertigation waste water and fertiliser and demand heavy labour, while wired automation is costly and hard to install on small and mid-sized farms.

SOLUTION & TECHNOLOGY

AutoFarm retrofits solar-powered, battery-operated valve and pump controllers onto existing pipelines and links them over a LoRa wireless mesh to an IoT hub, removing field wiring. AutoFarm Sense nodes measure soil moisture, temperature, humidity, leaf wetness, EC and sunlight to drive sensor-based or scheduled irrigation, fertigation, AI advisories and disease prediction.

ACHIEVEMENTS & VALIDATION

- Wire-free LoRa mesh links waterproof, solar-charged field controllers across up to 5 km
- Soil and micro-climate sensing claims up to 40% reduction in irrigation water per plot†
- Winner, ILF Adhunik Gram (Smart Village) Programme 2020 for a multipurpose smart farm vehicle
- Runner-up, DCM Shriram AgWater Challenge; winner, Pune Agri Hackathon (soil & water conservation)



1,200+

Customers†

6

Patents†

10,000+

AutoFarm app installs

FOUNDERS

Shrilesh R. Mande (Founder & CEO) · Umesh Yadav · Saurabh Jadhav

 autofarm.in

 mandeshrilesh@gmail.com

ILF AGRITECH CLASSIFICATION **B02.02 Smart & Automated Irrigation**

Inside the Farm › Irrigation & Water Management | Facets: F01 · F09



SUIND

Founded 2020 in Zurich · Headquartered in Bengaluru, with a subsidiary in Zurich

Camera-first autonomous agricultural drones built for orchards, plantations, tall crops and hilly terrain.

THE CHALLENGE

Today's agri-drones cannot spray orchards, hilly terrain or crops taller than two metres, depend on skilled pilots and often crash into trees and poles, so growers fall back on slow and unsafe manual spraying.

SOLUTION & TECHNOLOGY

SUIND's Bumblebee drone flies fully autonomously using only onboard cameras and lightweight compute, without radar or LiDAR. A four-camera vision system builds 3D terrain models in flight for terrain following, obstacle avoidance and vision-based precision landing, while onboard AI detects individual trees for targeted, dynamically dosed spraying with full spray logs. The drone is chemical-resistant, one-person portable and BVLOS-ready.

ACHIEVEMENTS & VALIDATION

- Zero incidents across 1,000+ customer operations†
- Rubber trials with Harrisons Malayalam Ltd. across 700+ acres: 80% higher top-canopy leaf retention than ground spraying†
- Rubber operations scaled from 10 acres in four days (2023) to 300 acres in ten days (2025)
- Successful proofs of concept in 10+ crops, including rubber, sugarcane, banana and mango; first sugarcane operations hub at Baramati



0

Incidents in 1,000+ operations†

60%

Less agrochemical used†

10+

Crops with successful POCs

FOUNDERS

Kunal Shrivastava (CEO; IIT Roorkee, ETH Zurich) · Kevin Kleber (CTO; ETH Zurich)



suind.com



info@suind.com

ILF AGRITECH CLASSIFICATION **B01.05.01 Drone spraying services**

Inside the Farm › Precision Farming & Crop Intelligence › Drone Application Services | Facets: F03 · F02 · F05



4CLIMATE

Naturex AI Technologies Pvt. Ltd.

CIN U62099GJ2023PTC142527 · Incorporated 2023 · Vadodara, Gujarat · Incubated with ILF 2025

IoT and AI automation of climate, irrigation and nutrients for controlled-environment agriculture.

THE CHALLENGE

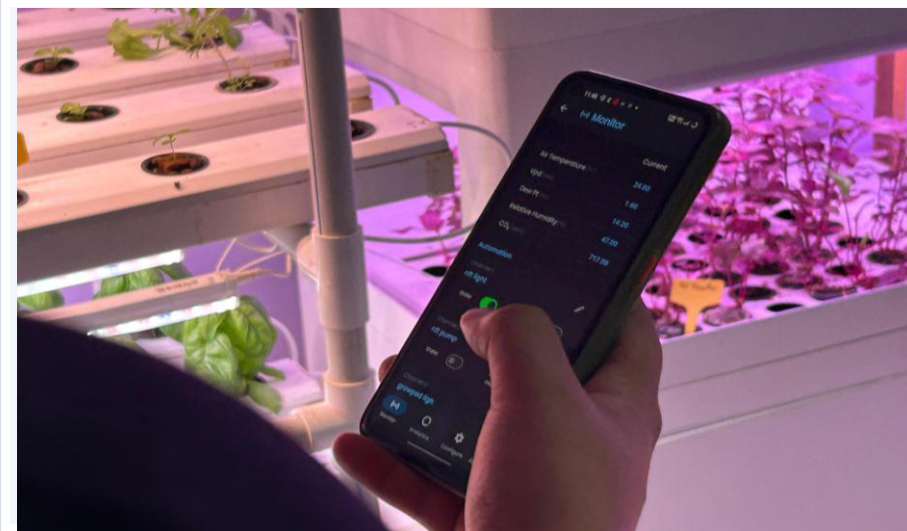
Greenhouse and indoor growers lack affordable precision-farming technology, leaving protected cultivation exposed to crop failure, high operating costs and inconsistent quality.

SOLUTION & TECHNOLOGY

An integrated control stack for greenhouses and vertical farms: a relay-based automation controller (32 expandable channels) for micro-climate control; XDOSE closed-loop pH/EC nutrient dosing for crop-specific fertigation; and the TERRAONE cloud Crop AI platform, which turns sensor streams into dashboards, crop steering and early disease alerts.

ACHIEVEMENTS & VALIDATION

- Winner, early-stage category, AVF Summit & VertiFarm 2024 Start-up Challenge, Dortmund, Germany
- Automation deployed at Qatar's largest indoor vertical farm and at ITC's commercial greenhouse in India†
- Crop AI processes 5 million+ sensor data points a day; MeitY TIDE 2.0 cohort (IIMV FIELD)
- Top 10, World AgriTech Startup Challenge (Gulfood 2026); Top 20, UAE–India CEPA Startup Series



125+

Installations in India & MENA†

5

Patents†

100+

IoT sensor nodes deployed†

FOUNDERS

Subhajit Sinha (Co-founder & CEO; IIITDM Kancheepuram) · Vasu Faldu (Co-founder & CTO)

 4climate.in

 subhajit@4climate.in

ILF AGRITECH CLASSIFICATION **B04.02 Climate Control & CEA Equipment**

Inside the Farm › Protected Cultivation & CEA | Facets: F01 · F02



Krishigati

Krishigati Pvt. Ltd.

Pune, Maharashtra

Electric, multi-operation farm machines and IoT services for small and marginal farmers.

THE CHALLENGE

Small farmers depend on scarce labour and draught animals for intercultural operations, and tractors and power tillers cannot work in narrow 16–18 inch crop rows.

SOLUTION & TECHNOLOGY

The Electric Bull® KPL 2.1 WB is a battery-electric, axle-less toolbar that performs precision sowing (1–99 inch seed spacing), mechanical weeding, earthing-up and spraying in narrow-lane crops with zero direct emissions. Onboard IoT feeds the Krishimuni app with real-time diagnostics, tracking and field data, supported by a farmer community platform.

ACHIEVEMENTS & VALIDATION

- Winner, National Startup Awards 2023; Electric Bull® endorsed by Union Minister Shri Nitin Gadkari
- Patent granted for an axle-less vehicle, with two registered designs, five trademarks and a copyright
- Commercial test report MTB-17/2973/2023; tested at NRFMTTI Hisar and ARAI Chakan; CE-compliant and ISO 9001:2015
- Empanelled under SMAM, MahaDBT, SMART and PoCRA farm-mechanisation programmes

Krishigati's Electric Bull® KPL 2.1 WB



Electric

The Electric Bull® has zero direct emissions during operation.

Cost savings

60–80% reduction in operational expenses compared to conventional machinery.

Enhanced productivity and efficiency

The Electric Bull® integrates multiple precision farming capabilities, precision sowing, mechanical weed management, soil conditioning, and precise agrochemical application.

Labor optimization

The Electric Bull® reduce labor dependency, enhance productivity, and lower operational costs.

60–80%

Lower operating cost vs conventional machinery†

75 L/acre

Spray use vs 120–500 L conventional†

9

Patents, designs, trademarks & copyright

FOUNDERS

Sonali Weljali (Founder & CEO) · Dr. Tukaram Sonawane (Founder & MD; PhD, Mechanical Engineering)



krishigati.com



director@krishigati.com

ILF AGRITECH CLASSIFICATION **B03.02 Tillage & Seeding Equipment**

Inside the Farm › Farm Machinery, Equipment & Automation | Facets: F01



cultYvate

Farms2Fork Technologies Pvt. Ltd. (brand: cultYvate)

Bengaluru, Karnataka

IoT and AI precision irrigation that saves water, lifts yields and generates carbon credits in paddy and sugarcane.

THE CHALLENGE

Paddy and sugarcane use about 40% of agricultural water worldwide. Flood-irrigated paddy falls outside irrigation schemes and is a major source of methane, while drip automation remains too costly for most sugarcane growers.

SOLUTION & TECHNOLOGY

A portable Alternate Wetting and Drying (AWD) sensor lets field officers record accurate, geo-tagged paddy water levels offline, feeding a real-time dashboard, irrigation alerts by IVR, SMS and app, and IoT-enabled carbon MRV. For sugarcane, a retrofit wireless controller runs autonomous, moisture-based irrigation on existing drip systems using IoT sensors, remote sensing and weather forecasts; the stack extends to greenhouse automation.

ACHIEVEMENTS & VALIDATION

- Patent granted (No. 429197) for a method and system for regulating the flow of water
- Farmer case studies: 30% water saving in paddy in Punjab and 45% in sugarcane in Tamil Nadu, with higher yields†
- Integrated measurement, reporting and verification for high-quality paddy carbon credits
- Team of 30 spanning agronomy, data science, IoT engineering and blockchain

Field Implementations

CULTYVATE®



20%

Water saved on paddy farms†

45%

Water saved on sugarcane farms†

40%

Lower paddy emissions†

FOUNDERS

Mallesh T. M. (Founder & CEO) · Sudarshan B. S. (Co-founder & CTO) · Bhavana M. (Co-founder, Growth Strategy)

✉ mallesh@cultyvate.com

ILF AGRITECH CLASSIFICATION **B02.02 Smart & Automated Irrigation**

Inside the Farm › Irrigation & Water Management | Facets: F01 · F02 · E07.02



Balwaan

Modish Tractoraurkisan Pvt. Ltd.

Incubated with ILF 2022

Affordable small farm machinery with IoT-enabled tracking and maintenance.

THE CHALLENGE

Small farmers need affordable machinery, while rented equipment such as power weeders suffers from misuse, theft, missed servicing and poorly timed deployment.

SOLUTION & TECHNOLOGY

A range of 20+ farm machines paired with a low-cost AI/IoT device that provides real-time GPS tracking against misuse and theft, predictive maintenance alerts, logs of on/off cycles and operating hours for billing, and data-driven seasonal demand forecasting for rental fleets.

ACHIEVEMENTS & VALIDATION

- Patent granted with incubator support
- Machine-health alerts for service due, oil changes and overall condition
- Usage analytics for accountable, hours-based rental billing
- Seasonality forecasting to deploy rental fleets for peak farming periods



Balwaan

PRODUCTS IN THE MARKET

Power weeders · Water pumps · Reapers · Sprayers · Brush cutters · Threshers · Seeders · Dairy machines

5.25 lakh

Customers†

20+

Products in the market

265

Jobs generated†

FOUNDERS

Rohit Bajaj (Founder)

 rohit@balwaan.com

ILF AGRITECH CLASSIFICATION **B03.06 Handheld & Small Tools**

Inside the Farm › Farm Machinery, Equipment & Automation | Facets: F01

Stepupify Labs

Stepupify Labs Pvt. Ltd.

CIN U80900BR2019PTC042708 · Incorporated 2019 · Kahalgaon, Bhagalpur, Bihar · Incubated with ILF 2024

Solar- and battery-powered smart farm machines on a common lithium battery platform.

THE CHALLENGE

Small farmers face labour shortages, drudgery and fossil-fuel machinery unsuited to fragmented holdings, along with crop losses from stray animals.

SOLUTION & TECHNOLOGY

A family of 30+ zero-emission tools (brush cutters, weeders, reapers, sprayers, augers, maize sheller, pumps) driven by BLDC/PMDC motors on shared 12 V, 26 V and 48 V lithium iron phosphate batteries rated for 2,000+ cycles. An AI farm-surveillance unit uses a 5 MP night-vision camera to classify humans and animals and trigger sirens and phone alerts.

ACHIEVEMENTS & VALIDATION

- Equipment tested by FMTTI; e-weeder field-tried by ICAR-RCER Patna scientists
- AI surveillance unit demonstrated at RPCAU Pusa and field-tested in Kahalgaon villages
- ISO 9001:2015 and MSME ZED Bronze certified; showcased at G20 Agriculture Ministers' Meeting 2023
- Best Emerging Agritech Startup 2023 (AICRA with DST); Best Emerging AgriTech, Startup Mahakumbh



30+

Zero-emission farm tools

1,500

Customerst†

3

Patents applied, 2
designs registered†

 FOUNDERS

Ajit Kumar (Founder & CEO; IIT Kharagpur) · Alka Ranjan Singh (Co-founder, Operations)



 ajit@stepupify.com

ILF AGRITECH CLASSIFICATION B03.06 Handheld & Small Tools

Inside the Farm › Farm Machinery, Equipment & Automation | Facets: F11



BIOME Technologies

BIOME Technologies Pvt. Ltd.

Maharashtra

Soilometer: an on-farm test kit for soil microbial health and the quality of biological inputs.

THE CHALLENGE

Heavy use of synthetic fertilisers and pesticides erodes soil microbial life, yet microbial testing is confined to laboratories, takes days and needs a microbiologist.

SOLUTION & TECHNOLOGY

Soilometer is a field kit that lets a farmer assess the living microbial status of soil on the farm in about three hours, against at least three days in a laboratory, at a fraction of the cost. The same kit enables on-farm quality control of biological inputs and is paired with the Soil-O-Meter mobile app, biological inputs and crop advisory.

ACHIEVEMENTS & VALIDATION

- Kit validated by ICAR–Indian Institute of Soybean Research, Indore, and KVK Baramati
- Patent application filed for the Soilometer kit
- Agrochemical-literacy training for farmers; featured by The Indian Express and Hindustan Times
- Soil advisory helped farmers achieve residue-free, export-quality produce meeting European standards†



3 hrs

On-farm test vs 3+ days
in a lab

~97%

Lower testing cost vs
lab†

2

Institutional validations
(ICAR-IISR, KVK)

FOUNDERS

Dr. Prafull Gadge (CEO & Principal Scientist) · Umesh Bhosale (COO)



biometechnologies.in



drprafull@biometechnologies.in

ILF AGRITECH CLASSIFICATION **A01.01.06 Rapid and portable soil test kits**

Before the Farm › Laboratory & Testing Services › Soil Testing & Analysis | Facets: F10



Shoption

Shoption Pvt. Ltd.

CIN U51909PN2019PTC185687 · Incorporated 2019 · Pune, Maharashtra

AI-enabled B2B platform for irrigation supply, dealer services and smart farm devices.

THE CHALLENGE

Irrigation retailers carry dealership deposits, brand restrictions and heavy inventory, while farmers struggle to find quality products, installation and after-sales service.

SOLUTION & TECHNOLOGY

A multi-brand B2B commerce app for irrigation dealers with AI inventory forecasting, digital dealer onboarding and “Nova”, a multilingual WhatsApp AI assistant for ordering, tracking and complaints. Its in-house GBRU line adds IoT hardware: remote pump automation, 4G solar-powered farm cameras and agricultural drones.

ACHIEVEMENTS & VALIDATION

- Nova multilingual WhatsApp AI assistant handles orders, shipment tracking and complaints†
- GBRU smart-farm range: GSM/app pump automation, 4G solar security cameras and agri drones†
- 1 patent and 6 trademarks; 350+ own-brand products
- Startup Leadership Award, Agriculture Leadership Conclave 2026; founder AgriTech Entrepreneur of the Year 2025†



1.25 lakh+

Dealers on platform†

500+

Brand partners†

25+

States served†

FOUNDERS

Sharad R. Kale (Founder & CEO) · Somnath Shendge (Co-founder) · Shraddha Kale (Co-founder)



shoption.in



sharad.kale@shoption.in

ILF AGRITECH CLASSIFICATION **A08.05 Input Retail & Last-Mile Delivery**

Before the Farm · Farm Consumables & Ancillaries | Facets: F01 · F02



gaoON

Vertical Agrosience (P) Ltd. (brand: gaoON)

Incorporated 2022 · Noida, Uttar Pradesh

A field-services platform bringing inspection, crop care, quality inputs and market linkage to the farm.

THE CHALLENGE

Farmers lack timely expert help in the field across the crop cycle and struggle to access quality inputs, skilled labour and fair buyers.

SOLUTION & TECHNOLOGY

Farmers book soil testing, crop advisory, field inspection and crop-care treatments on the gaoON platform; trained professionals implement solutions with modern tools and quality products, and a merchant network provides post-harvest price discovery and market access. An in-house programme is breeding environment-tolerant and environment-friendly seed, including hybrid, DSR and herbicide-tolerant lines.

ACHIEVEMENTS & VALIDATION

- 550+ seed varieties under trial; seed patents targeted in paddy and wheat
- 10-acre R&D farm, 5 t/hr seed plant and 5 t/hr micronutrient plant
- 68 own-brand gaoON products across seeds, crop protection and plant growth
- Merchant network across 30 districts linking farmers to buyers†



550+

Seed varieties under trial

200+

Merchants in network†

30

Districts covered†

FOUNDERS

Himanshu Tyagi (COO) · Manoj Gupta (CFO) · Nadeem Tyagi (CSO)

 vagrosience.com

 manoj.gupta@vagrosience.com

ILF AGRITECH CLASSIFICATION **B07.04 Farm Advisory & Decision Support**

Inside the Farm › Farm Management, Records & Compliance | Facets: E05



SUB-SECTOR 2 OF 6

Livestock, Dairy & Fisheries

Animal-health wearables and AI-led vet care, antibiotic-free remedies, recirculating and full-stack aquaculture, and traceable dairy that lift livestock and fish farmers' incomes.

13

Fishmongers

Recirculating aquaculture & live-fish logistics

14

Areete

AI-IoT cattle health collar

15

AniMeta

Antibiotic-free ethnoveterinary care

16

Doodhvale Farms

Traceable farm-to-home clean dairy

17

ORIGHT

Milk-testing IoT & rural fintech

18

Manjha

Aquaculture inputs & advisory platform

19

PashuBazaar

Live-weight goat grading

20

Krushal

AI-led dairy animal-care services

21

AquaX

IoT pond monitoring & co-op aquaculture



Fishmongers

Shuvoneel RAS System Pvt. Ltd. (SNRAS Systems)

CIN U62099PN2019PTC181843 · Incorporated 2019 · Pune, Maharashtra · Incubated with ILF 2020

Recirculating aquaculture and live-fish logistics powering a traceable fish supply chain.

THE CHALLENGE

About a quarter of India's aquaculture harvest is wasted between pond and plate, and farmers lose income to spoilage and distress sales through middlemen.

SOLUTION & TECHNOLOGY

Recirculating aquaculture systems: the Bluebox nano-aquaculture unit filters and recirculates water to hold quality at high stocking densities (up to 80 kg/m³). Neelvaahan live-fish vehicles with an onboard mini-RAS carry 700–1,000 kg of fish over 500–1,000 km, backed by BlueSense IoT, antibiotic-free formulations and the Blue Farm AI platform.

ACHIEVEMENTS & VALIDATION

- Up to 30x productivity and 4x lower crop mortality vs traditional ponds (WRI India Land Accelerator 2021)
- Neelvaahan transport at under 3% mortality, versus 10–30% industry losses†
- Empanelled RAS manufacturer under PMMSY (NFDB); installations include ICAR-CIFE
- National Agri Startup Award; National Bioentrepreneurship Competition winner; runner-up, Gulfood Award



19 / 4

Patents applied / granted†

Up to 30x

Productivity vs ponds

131

Customers†

FOUNDERS

Suvadeep (Suvo) Sarkar (Co-founder & CEO) · Dr. Vivek Saha (Co-founder, MD & CRO) · Arindom Sanyal · Kejal Thacker

 fishmongers.biz

 suvo@fishmongers.biz

ILF AGRITECH CLASSIFICATION **B06.02 Intensive & Recirculating Systems**

Inside the Farm › Aquaculture & Fisheries Production | Facets: F01



Areete

Areete Business Solutions Pvt. Ltd. (Ayushman Cowfit)

CIN U72900PN2021PTC202837 · Incorporated 2021 · Pune, Maharashtra · Incubated with ILF 2024

AI-powered IoT neck collar for early detection of heat and illness in dairy cattle.

THE CHALLENGE

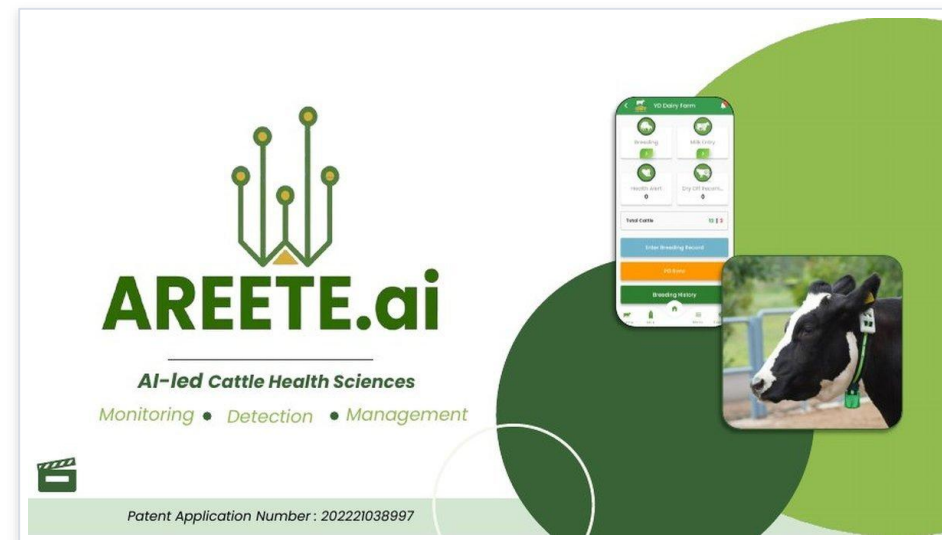
Three in four artificial inseminations fail due to poor heat timing, and manual monitoring misses early signs of illness, depressing milk yields.

SOLUTION & TECHNOLOGY

Ayushman Cowfit is a sealed, Made-in-India neck collar with four sensors (skin temperature, jaw movement/rumination, activity and rest) sampling 10+ parameters about every 10 minutes. Cloud AI models flag oestrus, health anomalies and pregnancy, sending alerts through a multilingual app, typically about two days before illness is visible.

ACHIEVEMENTS & VALIDATION

- International patent application WO2024009326A1 (priority IN 202221038997); patent granted for its AI/ML system†
- Field use at Raj Bhavan Gaushala, Lucknow: 85% heat-detection accuracy, illness alerts about two days early
- National Startup Awards 2026 (DPIIT); ICAR-IARI Best Startup Award 2025
- Co-developed with ICAR-NDRI and ADT Baramati experts; used by Amul, Nestlé, Banas and Chitale dairies



10,000

Customers†

9

States served

10+

Parameters sensed per animal

FOUNDERS

Srinivas Subramanian (Founder & MD; lead inventor) · V. S. Shridhar (Co-founder & Jt. MD) · Sriram Subramanian (Co-founder)



areete.ai



strategylead1@areete.ai

ILF AGRITECH CLASSIFICATION **B05.03 Animal Health Monitoring**

Inside the Farm › Livestock & Dairy Production | Facets: F01 · F02

AniMeta

AniMeta AgriTech Pvt. Ltd. (app: YourFarm)

Coimbatore, Tamil Nadu

India's first ethnoveterinary animal-healthcare platform for antibiotic-free dairy farming.

THE CHALLENGE

India has about 34,500 veterinarians against a need of 75,000 for 30 crore cattle and buffalo, so over half of treatment comes from quacks and self-medication, driving antibiotic misuse and residues in milk.

SOLUTION & TECHNOLOGY

The YourFarm app combines a self-diagnosis chatbot, a vet connection within 60 seconds, field visits and vet camps with 15 ethnoveterinary formulations and follow-up until the animal recovers. The herbal products replace antibiotics for common conditions such as mastitis at a fraction of conventional treatment cost, and reach farmers online, through partner stores and feed millers, and via dairy cooperatives and milk-collection centres.

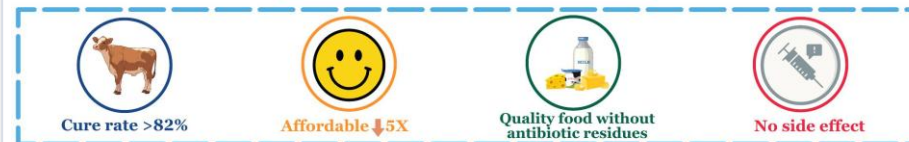
ACHIEVEMENTS & VALIDATION

- Cure rate above 82%, validated through clinical trials, academic institutions and dairy partners†
- 1,500 kg of antibiotics replaced with ethnoveterinary products†
- Partnerships with 15 dairy cooperatives, supporting antibiotic-free milk of over 20 lakh litres a day†
- Co-founder Dr. N. Punniamurthy brings 35 years in ethnoveterinary practice and has advised NDDB and DST

.....redefining animal healthcare

AniMeta

Animeta's Ethnoveterinary Products



Validation

- Clinical trials
- Academic Institutions
- Dairy partners

55,000

Farmers benefitted†

3 lakh+

Animals treated†

1,500

Villages reached†

FOUNDERS

Dr. Vijayakumar Ramalingam (Co-founder & CEO) · Dr. N. Punniamurthy (Co-founder & Chief Veterinary Officer) · Shenbaga Kannan (Co-founder & CTO)

✉ vijay@yourfarm.co.in

ILF AGRITECH CLASSIFICATION A06.03.05 Herbal and ethno-veterinary products

Before the Farm › Animal Husbandry Inputs › Veterinary Pharmaceuticals & Biologicals | Facets: E05 · F02



Doodhvale Farms

A vertically integrated, traceable clean-dairy platform from farm to doorstep.

THE CHALLENGE

Adulteration is widespread in Indian milk, which passes through six to eight intermediaries with weak cold chains, while mid-scale dairy farmers remain unorganised price-takers.

SOLUTION & TECHNOLOGY

Doodhvale runs every step from farm to doorstep: partner farms with no hormones, antibiotics or pesticides, individually tracked cattle and batch testing before dispatch; an IoT-monitored inbound cold chain; and a subscription app with demand forecasting and route-optimised last-mile delivery within hours of milking.

ACHIEVEMENTS & VALIDATION

- Every litre tested and graded, with quality assurance at every supply-chain node†
- Onboarded farmers report a ~25% average income increase, with digital payment and quality records†
- Available on its D2C app, Blinkit, Zepto and Swiggy Instamart, and in stores with a tech-enabled Milk ATM
- Named among India's fastest-growing D2C brands by Inc42; Pro+ high-protein dairy range launched

You Drank Milk This Morning.

You Don't Know What Was In It.

70% of milk samples across India fail FSSAI quality standards. Urea, formalin, detergent, hydrogen peroxide, antibiotics, hormones — all found in commercially sold milk. The gap between demand for clean milk and its supply widens every year.



50,000+

Active subscriptions†

<0.5%

Wastage in a perishable category†

99%+

Delivery service level†



CONTACT



doodhvale.com



aman@doodhvale.com

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands

After the Farm › Retail, eGrocery & Foodservice | Facets: F01



ORIGHT

Dairy digitisation and embedded rural fintech for milk producers and dairy companies.

THE CHALLENGE

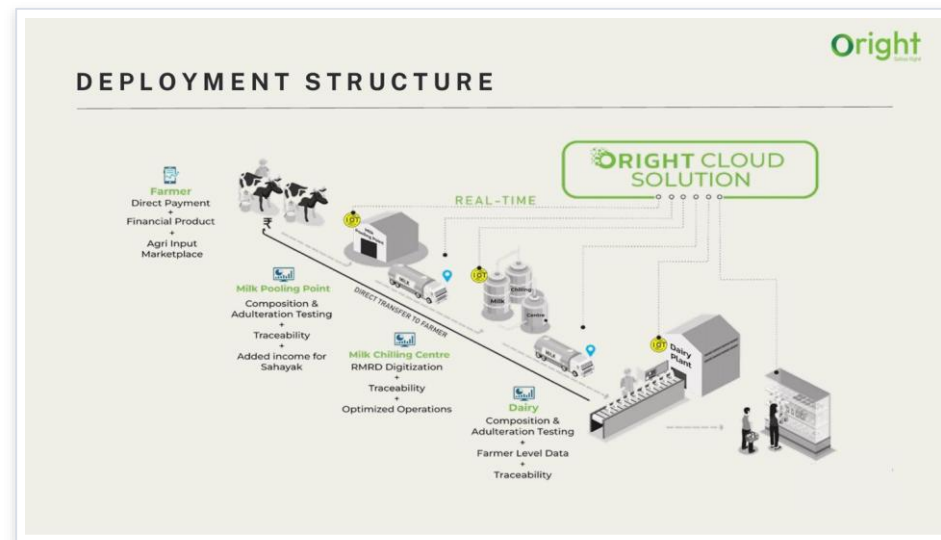
Milk procurement suffers from pricing opacity and weak quality control, and dairy farmers have little access to formal credit.

SOLUTION & TECHNOLOGY

ORIGHT's IoT-enabled milk-testing and cloud platform digitises village pooling points, capturing quantity and quality at collection so that payments are settled transparently. The same data layer powers banking-correspondent services, AePS, insurance and lending at rural fintech centres, extending organised finance to dairy farmers.

ACHIEVEMENTS & VALIDATION

- Selected for the Reserve Bank of India Innovation Hub programme
- Dairy partners improved milk quality by ~75 basis points through digitisation†
- Reduces dairies' milk procurement cost while raising farmer incomes†
- 400 rural fintech centres; six years in operation



3.5 lakh

Dairy farmers served†

9,000

Village pooling points†

25

Dairy companies†

FOUNDERS

Utkarsh Kapoor (Founder & CEO; INSEAD) · Ramee Kachroo (Founder & CTO; INSEAD)

utkarsh@qboid.io

ILF AGRITECH CLASSIFICATION **B05.08 Milk Procurement & Chilling**

Inside the Farm › Livestock & Dairy Production | Facets: F01 · E03 · E01



Manjha

Manjha Technologies Pvt. Ltd.

Operating in eight states across North, West and East India

A full-stack digital platform for fish and shrimp farmers, from seed and feed to advisory, credit and market linkage.

THE CHALLENGE

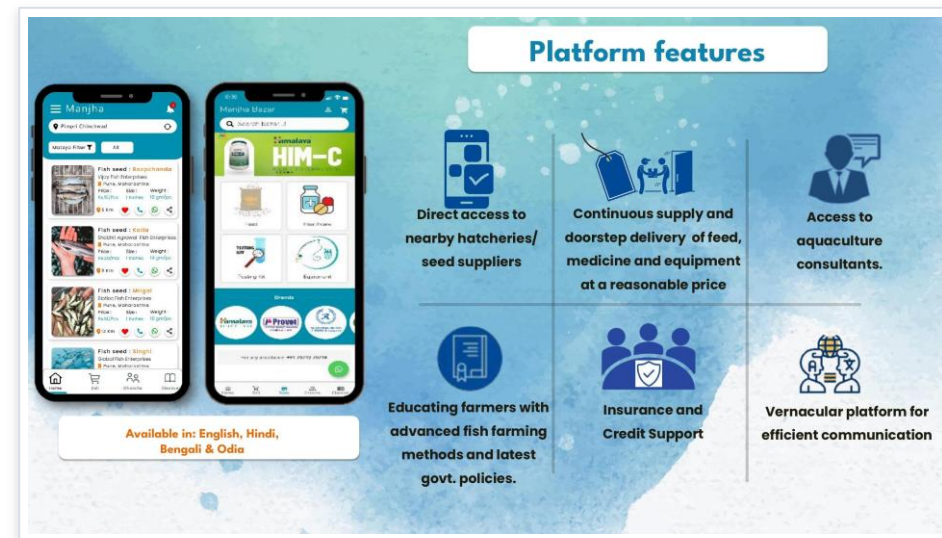
Aquaculture farmers face a fragmented chain: poor visibility of fish-seed supply, dependence on middlemen for inputs, little access to consultants, credit or insurance, and unorganised selling of the final harvest.

SOLUTION & TECHNOLOGY

Manjha's vernacular app, in English, Hindi, Bengali and Odia, gives farmers direct access to nearby hatcheries through a dedicated fish and shrimp seed marketplace, doorstep delivery of feed, medicines and equipment, 24x7 aqua consultants, the Matsya Charcha learning community, and credit and insurance support. Pond-to-plate linkages with online meat players and IoT pond monitoring extend the stack.

ACHIEVEMENTS & VALIDATION

- Award from the Minister of Science & Technology and the ET Leaders of Tomorrow award; recognised by the Union Minister of Fisheries
- Runner-up at TiE Udaipur and TiE Chandigarh startup pitching
- Consultancy support to 1,500+ farmers; input costs reduced by 12–15% for farmers†
- 15 village-level entrepreneurs established for last-mile reach and rural jobs



17,000

Registered farmers†

90 mn+

Fish seed sold†

1,800 MT

Feed delivered†

FOUNDERS

Shobhit Aggarwal (CA/CMA; Finance & Marketing) · Divyam Goel (BITS Pilani; Product) · Sudhir Sangwan (Sales & Customer Relations)

cashobhitagg@gmail.com

ILF AGRITECH CLASSIFICATION A07 Aquaculture Inputs (seed, feed & health)

Before the Farm · Aquaculture Inputs | Facets: E05 · E01 · E02



PashuBazaar

Nandinandan Breeds & Seeds India Pvt. Ltd.

CIN U01403UP2014PTC064657 · Incorporated 2014 · Lucknow, Uttar Pradesh · Incubated with ILF 2019–20

Science-based live-body-weight and grading system for fair smallholder goat trade.

THE CHALLENGE

Goat trading has no transparent pricing, little buyer-seller information, no quality grading and few women participants, and remains largely cash-based.

SOLUTION & TECHNOLOGY

Standardised goat pricing on empty-stomach live body weight, adjusted by grading on physical parameters and dentition (age). Trained Certified Livestock Price Assessors apply the method at village and cluster livestock trade centres, with coded digital price messaging and an online marketplace linking farmers to bulk buyers.

ACHIEVEMENTS & VALIDATION

- Live-weight plus grading method replaces visual estimation of animal value
- Programme cut goat mortality from 30% to 6.8% and kid mortality from 48% to 8.5%
- Selected innovator, Water and Energy for Food (WE4F) Grand Challenge, 2021
- Women Pashu Sakhis and 3-tier village, cluster and central trade-centre network



30% → 6.8%

Goat mortality in
programme

10,000

Goat-farming
households

350

Micro-entrepreneurs
enabled

FOUNDERS

Sanjeev Kumar (Founder; founder of The Goat Trust) · Lalita (Director)



pashubazaar.com



nnbreeds@gmail.com

ILF AGRITECH CLASSIFICATION C06.08 Livestock & Live-Animal Trading

After the Farm › Agri Trading Platforms & Market Linkage | Facets: F02



Krushal

Deployed in Maharashtra, Tamil Nadu, Andhra Pradesh, Bihar and West Bengal

AI-powered, offline-first expertise as a service for dairy farm and animal care.

THE CHALLENGE

Much of the value in dairy's first mile is lost because veterinary and farm expertise is scarce and hard to scale, and millions of farmers make decisions offline, without guidance.

SOLUTION & TECHNOLOGY

Krushal delivers comprehensive, personalised farm and animal care, including healthcare, through on-field vets and paravets, a central team of senior vets, and VetAssist, its multimodal AI platform. VetAssist works offline at the edge, maintains animal health records and guides field staff; AgriAssist extends the model to crops and is being piloted.

ACHIEVEMENTS & VALIDATION

- VetAssist: 100% adoption by field teams, with 80% of cases resolved offline at the edge†
- Disease cost reduced by about 50% and GHG emissions by 30–40% within one to two years†
- Clients include Godrej, ITC, Paras, Shreeja, KisanKonnnect and Nudge; NDDB partner and IDA member
- Team with 150+ years of experience, including a 40-year veterinary expert and a former MilkLane CEO



Krushal

PRODUCTS IN THE MARKET

Personalised farm and animal care for dairy farmers, delivered by vets and paravets and powered by VetAssist AI.

5,000+

Farmers served†

15,000+

Animals serviced†

75%

Client renewal rate†



CONTACT



sandeep.raju@krushal.in

ILF AGRITECH CLASSIFICATION **B05.04 Veterinary Services & Telemedicine**

Inside the Farm › Livestock & Dairy Production | Facets: F02 · E05



AquaX

AquaX Pvt. Ltd.

CIN U05000UP2021PTC151168 · Incorporated 2021 · Lucknow, Uttar Pradesh · Incubated with ILF 2025

Tech-enabled cooperative aquaculture for North India's inland fish farmers.

THE CHALLENGE

Inland fish farmers in North India get low yields, lose value to middlemen and sell into unhygienic markets, leaving a wide demand-supply gap in UP and Bihar.

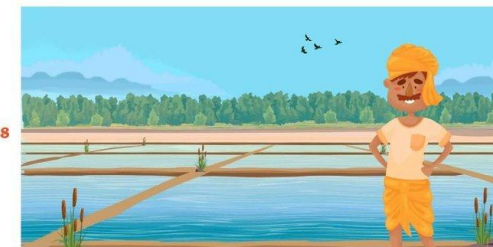
SOLUTION & TECHNOLOGY

A full-stack inland aquaculture model combining own farms with cooperative contract farming. AquaEye remote pond-water monitoring, the AquaBrain farm-advisory app and an input marketplace support scientific stocking, feeding and water management, while AquaWheel mobile carts with mini-RAS keep fish alive for 48+ hours and sell direct to consumers.

ACHIEVEMENTS & VALIDATION

- National Best Fish Farmer (Inland) Award 2022, NFDB, Government of India
- Raebareli unit: 23 modern ponds on about 10 ha, with shrimp diversification
- Planned Raebareli Fish Hub with laboratory, training centre and technology demonstrations
- Own hatchery capacity of about 20 million fish seed a year

AquaX
Pooling Efforts, Harvesting Success
Incorporation - Aug, 2021
Regd. Add - Lucknow, UP



**BUILDING
AMUL OF AQUACULTURE**

Tech enabled eco-system for Inland fish farmers and Market

23

Modern ponds,
Raebareli unit

500–600 t

Annual fish output
reported

50+

Farmers linked and
trained

FOUNDERS

Sujeet K. Chaudhary (Founder & MD; ex-Infosys) · Mohanish Singh (IIT-BHU) · Vivek Singh

 aquax.in

 sujeet@aquax.in

ILF AGRITECH CLASSIFICATION **B06.03 Water Quality Management**

Inside the Farm › Aquaculture & Fisheries Production | Facets: F01 · E06



SUB-SECTOR 3 OF 6

Post-Harvest, Storage & Agro-Processing

Solar drying, decentralised aseptic processing, off-grid cold chains, modified-atmosphere storage and smart warehousing that cut post-harvest loss at the first mile.

22 **Raheja Solar Food Processing**
Hybrid IoT solar dryers

23 **InnoFarms**
Containerised aseptic fruit processing

24 **New Leaf Dynamic**
Biomass-powered cold rooms

25 **Citrus Freight**
IoT reefer cold chain

26 **Hydrogreens (KANAJ)**
Modified-atmosphere storage barrels

27 **Vaag**
IoT smart warehousing & mandi data



Raheja Solar Food Processing

Raheja Solar Food Processing Pvt. Ltd.

CIN U15400MP2019PTC050104 · Incorporated 2019 · Indore, Madhya Pradesh · Incubated with ILF 2023

Foldable, IoT-enabled solar dryers that turn surplus produce into shelf-stable income.

THE CHALLENGE

Nearly 14% of global harvests are lost every year to poor shelf life and weak market linkage, costing farmers income and adding emissions.

SOLUTION & TECHNOLOGY

Foldable, waterproof solar tunnel and cabinet dryers (5 kg to 1,000 kg) using UV-stabilised sheets, with passive and active (hybrid) drying modes. Food-contact parts are SS-304, and larger models carry IoT sensors monitored from a mobile app. Vegetables dry in 2–3 days with up to 80% nutrient retention†.

ACHIEVEMENTS & VALIDATION

- UNEP Young Champions of the Earth 2019; Forbes 30 Under 30 Asia 2021
- Raheja Solar Dryers listed as a Solar Impulse Foundation “Efficient Solution”
- 12,000+ t of food saved from waste; 5,500+ jobs and 4,000+ women linked to processing
- Inclusive Business Award for Best Technology 2026; Best West Zone Agri Startup (MANAGE)



8,000+

Solar dryers deployed†

12,000+ t

Food saved from waste

12,367

Customers†

FOUNDERS

Varun Raheja (Founder & CEO; Forbes 30U30 Asia) · Babita Raheja (Co-founder & Quality Head)



rsfp.in



business@rsfp.in

ILF AGRITECH CLASSIFICATION C01.03 Drying & Curing

After the Farm › Harvest & Primary Handling | Facets: F01



InnoFarms

SNL Innovations Pvt. Ltd. (brand: InnoFarms)

Jaipur, Rajasthan

Mobile, containerised aseptic fruit processing that brings the factory to the farm.

THE CHALLENGE

Large volumes of fruit are lost at the farm gate, because aseptic pulping is capital-intensive and centralised while frozen or preserved pulp is costly and lower in quality.

SOLUTION & TECHNOLOGY

A low-cost, semi-automatic aseptic unit converts farm-ripened fruit into heat-sterilised pulp with 12–18 months' shelf life, without cold storage or preservatives, on the same principle as UHT milk. It needs no boiler or external utilities and fits in a 40-ft container (1–5 TPD), so FPOs and SHGs can process at source.

ACHIEVEMENTS & VALIDATION

- Two patents filed on the processing unit; ISO 22000, FSSAI and ZED Silver; product verified by Eurofins
- World's first container-based aseptic unit (5 TPD) processed litchi, guava, jamun, orange and mango in a year
- Seabuckthorn processed at 3,000 m+ in Ladakh; first aseptic pineapple pulp in Meghalaya
- FairFarms pulp-based juices at 1,500+ retail counters and 5 airports

Flagship Innovation

Mobile Aseptic Processing Unit

The Factory That Comes to the Farm

No more transporting perishable fruit. Verify quality and process on-site into premium aseptic pulp with up to 18 months shelf life.

✓ Capacity: 1 - 5 Ton Per Day

✓ Compact 40ft Container Footprint



16+

Active processing units†

10+

Regions, incl. Zimbabwe†

12–18 mo

Shelf life without preservatives

FOUNDERS

Sudhanshu Gupta (Founder; IIT Bombay) · Dr. Liza Gupta (Co-founder; PhD, University of Giessen)

 innofarms.co.in

 sudhanshu@innofarms.co.in

ILF AGRITECH CLASSIFICATION **C07.03 Fruit & Vegetable Processing**

After the Farm › Food & Agri Processing | Facets: E04



New Leaf Dynamic

New Leaf Dynamic Technologies

Incubated with ILF 2018 (graduated 2022)

Patented, compressor-less refrigeration powered by biomass, waste heat or steam for off-grid cold rooms, ice and milk chilling.

THE CHALLENGE

Farm-gate cold storage is scarce because conventional refrigeration needs reliable grid power, so small farmers lose perishables and sell in distress to middlemen.

SOLUTION & TECHNOLOGY

New Leaf replaces the compressor with adsorption refrigeration driven by renewable heat — biomass, cow-dung cakes, waste heat or steam — using a natural refrigerant with zero GWP and zero ODP and up to 95% power savings. Fully automated, IoT-enabled units with live cameras serve 10–400 MT cold rooms and ripening chambers (+1 to +25 °C), flake and block ice, and 2–15 kL milk chilling.

ACHIEVEMENTS & VALIDATION

- First prize, Emerson Innovative Cold Chain Infrastructure Projects, REFCOLD 2022; Indo-German Sustainable Agri Award 2022
- Installation visited by Melinda French Gates, co-chair of the Bill & Melinda Gates Foundation, in December 2022
- Farm-gate results: lemon shelf life extended by 40 days; citrus losses at the farm gate cut by 75%†
- Model adopted by banks to finance 100+ farm-gate cold rooms

Technology Applications

Application:

- Cold Rooms (10 – 20 MT)
- Cold Rooms (up to 400 MT)
- Ripening Chamber

Refrigeration Capacities:

4TR & 20TR

Temperature Range:

+1° to +25° C



CABBAGE
STORED IN
BIOMASS
POWERED
COLD ROOM

New Leaf
New Leaf Dynamic Technologies

150+

Installations, incl. 100+
cold rooms†

12,000 t

CO₂e emissions
reduced†

5,300 t

Waste diverted from
open burning†

FOUNDERS

Akash Agarwal (Founder)



newleafdynamic.com



akash.agarwal@newleafdynamic.com

ILF AGRITECH CLASSIFICATION C03.01.03 Solar and off-grid cold rooms

After the Farm › Cold Chain & Agri-Logistics › Cold Storage Infrastructure | Facets: F01



Citrus Freight

Boxnbiz Technologies Pvt. Ltd.

CIN U72200KA2016PTC095414 · Incorporated 2016 · Bengaluru & Mumbai · Incubated with ILF 2025

Digital reefer-container booking and temperature-monitored cold chain for perishable exports.

THE CHALLENGE

Perishable export logistics is fragmented across many intermediaries, with complex bookings, poor visibility and no SME-friendly service for FPOs and small exporters.

SOLUTION & TECHNOLOGY

A mobile-first platform that aggregates shipping-line options and vessel schedules for instant discovery, with an AI engine for scheduling and route optimisation. IoT data loggers provide real-time container temperature monitoring with deviation alerts, alongside digitised export documentation and compliance workflows.

ACHIEVEMENTS & VALIDATION

- AI-driven booking cut reefer booking time from about 72 hours to minutes[†]
- IoT temperature monitoring with deviation alerts; spoilage below 5% vs ~20% industry average[†]
- Citrus app: 10,000+ downloads, rated 4.2 on Google Play
- Clients include DeHaat, AgroStar and Sahyadri Farms; focus on Maharashtra produce via Nhava Sheva



India's 1st Full-Stack Cold Chain Logistics Platform For Perishable Exports



25,000+

Exporter users[†]

<5%

Spoilage rate[†]

1,000+

Containers shipped[†]

FOUNDERS

Biplob Barik (Co-founder & CEO; ex-Allcargo) · Ricky Goyal (Co-founder & COO) · Sunil Gauswami (Product/Tech)



citrusfreight.com



biplob.barik@citrusfreight.com

ILF AGRITECH CLASSIFICATION C03.06 **Logistics Technology & Visibility**

After the Farm › Cold Chain & Agri-Logistics | Facets: F01



Hydrogreens (KANAJ)

Hydrogreens · brand: KANAJ®

Hypobaric modified-atmosphere barrels for first-mile storage of grain, pulses and fodder.

THE CHALLENGE

Farmers lack first-mile storage, so grain and pulses are lost to pests, moisture and heat and sold in distress, while dairy farmers face seasonal green-fodder shortages.

SOLUTION & TECHNOLOGY

KANAJ is a food-grade, stackable HDPE barrel with a leak-proof seal that replaces air with commodity-specific $N_2/CO_2/O_2$ recipes held at 0.5–1 bar, with Agni Shield thermal insulation and a selectively permeable membrane. It enables chemical-free, fumigation-free storage for two months to a year and anaerobic silage-making; the Kanaj Bandhu service delivers gassing and silage on demand.

ACHIEVEMENTS & VALIDATION

- Silage fermentation in 7 days versus 35, at pH 4–4.5
- Pest-proof, oxidation-free storage of pulses and spices without fumigants; no aflatoxin in anaerobic storage†
- Three utility patents filed (one granted); 7+ design registrations (three granted); 23+ trademarks
- KANAJ Stayfresh solar-cooled lid for perishables under development

Kanaj™ Hypobaric Modified Atmosphere, Post harvest storage barrel for dry & wet feedstocks

Ready for further validation of multiple commodities



Salient features

100% Pest Resistant	Food Grade HDPE Barrel, Stackable, Easy to transport
LEAK PROOF SEAL	100% Air replacement, Internal atm. pressure held at 0.5 to 1 bar
Modified Atmosphere	Combinations of O_2 , N_2 , CO_2 held at high Pressure, 0 leak for weeks+
Temperature protect	Agni shield™ thermal insulation of up to 10 degrees, UV blocked
Storage Period	2 months to 1 year depending on commodity
Gas Membrane	Selectively permeable membrane for excess CO_2 escape in perishables

0 Oxygen (100% Anaerobic) storage of wet feedstocks for several months with 0 fungus, mould & aflatoxin*

© Hydrogreens 2023

7 days

Silage fermentation vs
35 days

2–12 mo

Chemical-free storage
period

4

Commodity-specific gas
recipes

FOUNDERS

Vasanth M. Kamath (Founder & CEO) · Mohan T. (Co-founder, Planning & Production)



myhydrogreens.com



vmk@myhydrogreens.com

ILF AGRITECH CLASSIFICATION C02.02 Controlled & Modified Atmosphere Storage

After the Farm › Storage & Warehousing | Facets: F11



Vaag

Vaag.ag

Chennai, Tamil Nadu

A full-stack post-harvest platform: smart warehousing, finance against stored goods, logistics and mandi prices.

THE CHALLENGE

Unscientific storage and poor transit handling cause heavy post-harvest losses, and farmers sell early and blind for lack of working capital and real-time price data.

SOLUTION & TECHNOLOGY

The VAAG stack combines IoT sensors (temperature, humidity, CO₂) in partner warehouses with AI/ML spoilage prediction, automated quality alerts, sensor-based condition reports, digital inventory traceability and geo-tagged transport monitoring. An app for farmers, FPOs and traders adds India-wide daily mandi prices, buyer linkages and finance against stored produce.

ACHIEVEMENTS & VALIDATION

- Targets post-storage losses below 1%, against up to 20% industry benchmark†
- Zero-human-intervention, sensor-based warehouse condition reporting
- Finance against stored goods within 48 hours through partners†
- Founding team with two decades in grain trading and exports across Africa, the Middle East and South-East Asia



<1%

Targeted post-storage loss†

48 hrs

Finance against stored goods†

8

Modules in the VAAG stack

FOUNDERS

Naveen Kumar (Founder & CEO) · Sundheep Venkat (Co-founder & COO) · Saravanan Raju Aiyer (Co-founder & CTO)



vaag.ag



naveen@vaag.ag

ILF AGRITECH CLASSIFICATION C02.03 Warehouse Operations & Management

After the Farm › Storage & Warehousing | Facets: F01 · F02 · E01



SUB-SECTOR 4 OF 6

Agri Markets, Supply Chain & Rural Finance

Digital marketplaces, traceable value chains, export platforms and embedded rural credit that connect farmers, FPOs and agri-MSMEs to markets and capital.

28 **Tractor Junction**
Farm-equipment marketplace

29 **Growcoms**
Blockchain-traced spice value chain

30 **TraceX**
AI sustainability & traceability

31 **Rang De**
P2P social lending for rural India

32 **Behtar Zindagi**
Farmer analytics & advisory commerce

33 **DigiGrain Solutions**
MSME supply chain & embedded finance

34 **Eximple**
Agentic AI for exports

35 **Poshn**
AI food-trade matching

36 **Bamboostan**
Farm-to-brand bamboo aggregation

37 **Myca**
Agentic AI & ML credit

38 **ONO**
Mandi digitisation & agri-credit



Tractor Junction

Farmjunction Marketing Pvt. Ltd.

Incubated with ILF 2019

An online marketplace for buying, selling and servicing tractors and farm equipment.

THE CHALLENGE

Buying, financing and maintaining tractors and farm equipment is fragmented and opaque for farmers, slowing the mechanisation of Indian agriculture.

SOLUTION & TECHNOLOGY

A digital platform offering end-to-end services for new and used tractors, farm equipment and rural commercial vehicles: discovery and comparison, buying and selling, financing, insurance, servicing and warranties, backed by brick-and-mortar outlets for used-equipment trading.

ACHIEVEMENTS & VALIDATION

- Digital platform for new and used tractors, farm equipment and commercial vehicles
- Brick-and-mortar outlets for trading used equipment
- FINJ platform connecting farmers to loans for tractor and equipment purchases
- One of the largest employers in the portfolio, with 2,300+ jobs



Tractor Junction

PRODUCTS IN THE MARKET

Tractor Junction digital platform · Used-equipment outlets · FINJ loan aggregation

87,300+

Customers†

2,311

Jobs generated†

3

Products and services



FOUNDERS

Rajat Kumar · Animesh Agarwal · Shivani Gupta



rajatgupta@tractorjunction.com

ILF AGRITECH CLASSIFICATION **B03.08 Machinery Marketplaces, Resale & After-Sales**

Inside the Farm › Farm Machinery, Equipment & Automation | Facets: E01 · E02



Growcoms

Kochi & Bengaluru

A full-stack, farm-to-fork spices value-chain integrator with blockchain traceability.

THE CHALLENGE

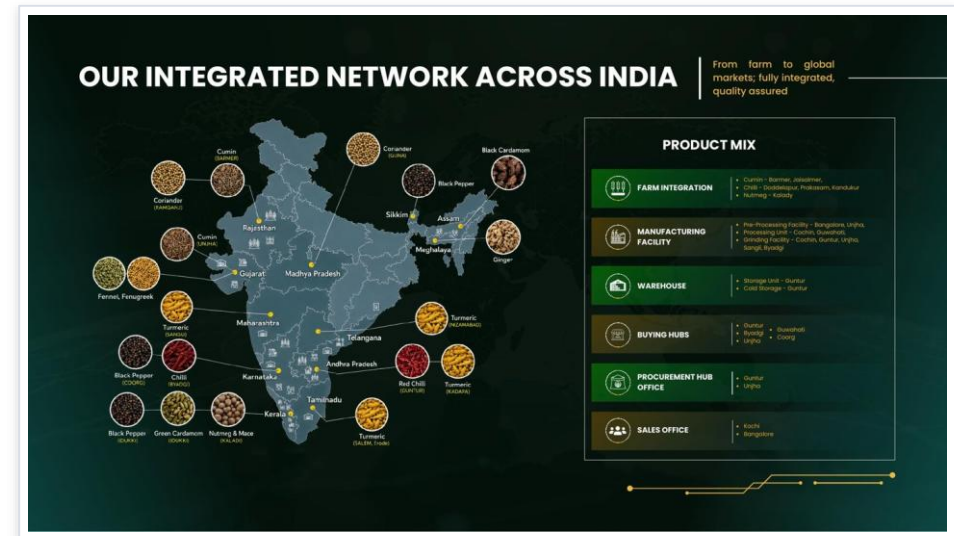
India's spice chain is fragmented: farmers lose value through four to six intermediary layers, processors run under-utilised, and buyers face inconsistent quality and weak traceability for export compliance.

SOLUTION & TECHNOLOGY

Growcoms aggregates directly from farmers and FPOs, processes at origin using spare capacity at partner units, and adds value through cleaning, grinding, oils and oleoresins, and seasonings. Its in-house Agrilin blockchain platform captures farm-level data and gives batch-level provenance from farmgate to buyer, with a built-in recall architecture.

ACHIEVEMENTS & VALIDATION

- Member of the European Spice Association; meets EU, US and Japan food-safety requirements
- Buying hubs at Guntur, Unjha, Byadgi, Guwahati and Coorg, with processing and grinding across eight locations
- Direct sourcing of chilli, cumin, nutmeg and other spices removes three to four intermediary layers
- Founders bring 40+ years with ITC, VKL, Synthite, Novozymes and Döhler



6

Value-chain stages owned, farmgate to brand

5

Spice buying hubs

45

Member strategic team†

FOUNDERS

George Kurian (Co-founder & CEO) · Bibin Mathews (Co-founder & COO) · Narendranath P. (Co-founder & CTO)



growcoms.com



gk@growcoms.com

ILF AGRITECH CLASSIFICATION C06.04 Aggregation & Procurement Management

After the Farm › Agri Trading Platforms & Market Linkage | Facets: F08

TraceX

TraceX Technologies Pvt. Ltd.

Incubated with ILF 2020

AI-powered sustainability intelligence for transparent, responsible supply chains.

THE CHALLENGE

Sustainability data is scattered across suppliers, enterprise systems, certifications, logistics and satellite imagery, making traceability and compliance manual and costly.

SOLUTION & TECHNOLOGY

A unified cloud platform: FoodSign® for end-to-end traceability and supplier collaboration, UrviEO™ for AI-powered geospatial intelligence and biodiversity monitoring from Earth observation data, and Cleara™ for autonomous supplier due diligence, document intelligence, risk assessment and compliance workflows.

ACHIEVEMENTS & VALIDATION

- Automates compliance with regulations such as EUDR, PPWR and Digital Product Passport
- Combines AI, geospatial AI and workflow automation in one cloud-native platform
- Continuous collection and verification of supply-chain sustainability data
- SKOCH Award recipient



TraceX

PRODUCTS IN THE MARKET

FoodSign® · UrviEO™ · Cleara™

30

Enterprise customers†

3

Platform modules

30

Jobs generated†

FOUNDERS

Srivatsa Sreenivasarao (Founder)

✉ srivatsa@tracextech.com

ILF AGRITECH CLASSIFICATION C05.03 Traceability Systems

After the Farm › Quality, Traceability, Certification & Compliance | Facets: F08 · F02 · E07

Rang De

Founded 2008 · Bengaluru, Karnataka

India's pioneering RBI-regulated peer-to-peer social investing platform for rural credit.

THE CHALLENGE

Rural entrepreneurs, farmers and artisans are denied formal credit for lack of credit history and turn to informal lenders charging 60–100% interest.

SOLUTION & TECHNOLOGY

Rang De's NBFC-P2P platform lets social investors fund borrowers of their choice through escrow-based disbursement and repayment, with no funds passing through Rang De's own accounts. Impact partners co-create loan products with communities, and the platform handles curation, financial and digital literacy, repayment tracking and monthly impact reporting.

ACHIEVEMENTS & VALIDATION

- Pioneered peer-to-peer lending in India in 2008; relaunched as an RBI-regulated NBFC-P2P in 2019
- Incubated by Social Alpha (Tata Trusts); selected for the Google for Startups Accelerator; co-founder an Ashoka Fellow
- Collaborators include IKEA Foundation, Rainmatter Foundation, World Bank and Social Alpha
- Collateral-free loans for first-time borrowers, with repayments reported to credit bureaus



15,000+

Investees†

12,623

Women supported†

7,500+

Social investors†

FOUNDERS

Ram N. K. (Co-founder & MD; Ashoka Fellow) · Smita Ram (Co-founder & CEO)

 rangde.in

 smita@rangde.in

ILF AGRITECH CLASSIFICATION E01 Agri Credit & Lending

Enabling Services & Finance (primary: pure enabling service) | Facets: E03

Behtar Zindagi

Behtar Zindagi Pvt. Ltd.

CIN U74999DL2018PTC339234 · Incorporated 2018 · New Delhi · Incubated with ILF 2023

Data-driven direct-to-farmer marketplace pairing video agri-advisory with inputs and machinery.

THE CHALLENGE

Low farm mechanisation and limited access to quality inputs keep Indian crop and dairy yields well below world averages.

SOLUTION & TECHNOLOGY

An in-house e-commerce and analytics stack profiles farmers on 5–27 data points to predict demand for inputs and machinery, combined with expert video-call advisory, crop-disease guidance and assisted ordering. It grew out of a 2012 mobile (IVR) agri-advisory service delivering weather, mandi prices and crop advice in 18 languages.

ACHIEVEMENTS & VALIDATION

- Origin: 2012 IVR agri-advisory with Airtel and Handygo in 18 languages
- Marketplace partner for IBISA's satellite-based heat-stress cover for dairy farmers (2024)
- Channel partnerships with Spice Money, Krish-e, Innoterra and Dvara E-Dairy
- Awards at Krishi Darshan Expo (NRFMTTI Hisar) and Agri Expo Bihar



बेहतर ज़िंदगी



5 lakh+

Android app downloads

50,000+

Products listed†

5,500

Sellers on platform†

FOUNDERS

Praveen Rajpal (Founder & CEO; MBA, IMT Ghaziabad) · Nitin Jain (Strategy) · Jitender Dabas (COO)

 behtarzindagi.in

 praveen.rajpal@behtarzindagi.in

ILF AGRITECH CLASSIFICATION **A08.05 Input Retail & Last-Mile Delivery**

Before the Farm · Farm Consumables & Ancillaries | Facets: E05 · F06

DigiGrain Solutions

DigiGrain Solutions Pvt. Ltd.

A phygital platform giving agri and food MSMEs sourcing, processing infrastructure, embedded finance and markets.

THE CHALLENGE

Agri and food MSMEs face fragmented supply, idle processing capacity, scarce working capital and poor commodity visibility, keeping rural trade informal and hard to finance.

SOLUTION & TECHNOLOGY

The Digi360 platform integrates KYC, automated fair-price bidding, weighbridge integration, purchase tracking, payments and batch-level traceability across Farm-to-Factory sourcing, Value Chain Management (warehousing and seasonal stocking) and Factory-to-Market services. Processing-as-a-Service monetises idle MSME capacity, with credit linked to real-time commodity movement.

ACHIEVEMENTS & VALIDATION

- Tamarind value chain in Paderu, Andhra Pradesh: 2,081 MT sourced and 7,500 tribal farmers and women supported
- ~15% better price realised by tribal producers, with reduced post-harvest losses†
- DigiNatural B2B food brand supplying HoReCa and modern retail
- Operates across spices, grains, pulses, oilseeds and cashew in food, feed, fuel and fibre

Rural Supply-Chain Formalization Processing as a Service (PaaS)



- ❖ DigiGrain acts as the anchor demand aggregator and market access enabler
- ❖ Unlocking Idle Processing Capacity - Enables MSME processors to monetize underutilized infrastructure and convert fixed assets into service-led revenue streams
- ❖ DigiNatural - Premium B2B Food Brand delivering consistent, quality-assured products with competitive pricing to the HoReCa and modern retail
- ❖ Credit-linked sourcing and assured offtake reduces working capital stress
- ❖ Technology & Control Layer - Full visibility via: Batch-level traceability, Purchase & inventory tracking, Quality compliance protocols



500+

MSMEs served†

7,500

Tribal farmers & women supported

2,081 MT

Tamarind sourced in one programme

FOUNDERS

Rosaiah Yeluri (CEO) · Anilkumar Parvathaneni (COO) · Praveen Gade (CTO)



digigrain.in



rosaiah@digigrain.in

ILF AGRITECH CLASSIFICATION C06.01 Digital Marketplaces & B2B Trading

After the Farm › Agri Trading Platforms & Market Linkage | Facets: E01 · E04



Eximple

Eximple Technologies Pvt. Ltd.

CIN U52290DL2025PTC449398 · Incorporated 2025 · New Delhi / Gurugram

Agentic AI platform automating export documentation and freight for Indian SMEs.

THE CHALLENGE

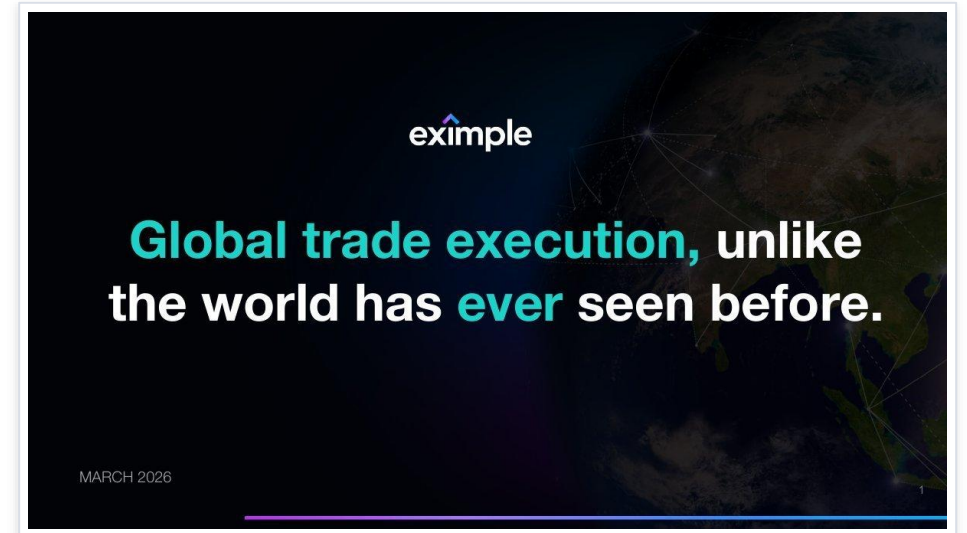
Each export shipment involves 5–10 parties coordinated by phone, email and spreadsheets, and most Indian SMEs do not trade globally due to documentation and supply-chain hurdles.

SOLUTION & TECHNOLOGY

Multi-agent AI orchestration with long-running agentic workflows: agents read exporter requirements, book freight capacity, and generate and validate commercial invoices, packing lists, certificates of origin, shipping bills and bill-of-lading workflows. Exporters interact over WhatsApp and email, with live shipment dashboards.

ACHIEVEMENTS & VALIDATION

- AI documentation engine generates and validates export documents before filing†
- Customers need no new app: updates, alerts and documents arrive on WhatsApp and email
- CTO co-inventor on Indian patent application 201821031503 (AI obstacle detection)
- Trademark EXIMPLE filed (application 7245976, Class 39)



90%

Repeat customers†

42+

Destination countries†

100+

TEUs moved†

FOUNDERS

Vishesh Jain (Co-founder & CEO) · Arjun Kansal (Co-founder & COO) · Sushil Patil (Co-founder & CTO)

 eximple.in

 vishesh@eximple.in

ILF AGRITECH CLASSIFICATION C06.06 Export & International Trade

After the Farm › Agri Trading Platforms & Market Linkage | Facets: F02

Poshn

Shambhu Technology Services Pvt. Ltd.

CIN U72200DL2020PTC365299 · Incorporated 2020 · New Delhi / Gurugram · Incubated with ILF 2021

AI-driven B2B platform digitising food commodity trade and fulfilment for MSMEs.

THE CHALLENGE

India's food value chain relies on millions of fragmented MSMEs facing broken distribution, poor price discovery and manual reconciliation.

SOLUTION & TECHNOLOGY

A proprietary AI model splits buyer demand into smaller lots and matches them to multiple suppliers, with engines for price discovery, reverse auctions and fulfilment-partner matching. Poshn Nucleus runs RFQ-to-payment workflows and instant ledgers, the Seller app handles bidding and reconciliation, and Poshn Lend supports lenders with credit scoring.

ACHIEVEMENTS & VALIDATION

- AI/ML engines for demand splitting, supplier matching and reverse auctions cut trade time from weeks to minutes
- Poshn Nucleus: RFQ-to-reverse-auction fulfilment and automated procure-to-pay for food MSMEs
- 10 lakh+ MT of agri produce delivered; 50,000+ primary producers impacted
- Best Agritech Startup, 6th Startup Awards by Entrepreneur India



1,100+

Buyers and sellers†

50,000+

Orders delivered†

25+

States served†

FOUNDERS

Shashank Singh (Co-founder & CEO; BITS Pilani, IIM Calcutta) · Bhuvnesh Gupta (Co-founder; XLRI, ex-Udaan)

 poshn.co

 charanjit@poshn.co

ILF AGRITECH CLASSIFICATION C06.01 Digital Marketplaces & B2B Trading

After the Farm › Agri Trading Platforms & Market Linkage | Facets: F02

Bamboostan

Machau Bamboo Products Pvt. Ltd. (brand: Bamboostan)

A tech-enabled farm-to-brand platform building an efficient Indian bamboo value chain.

THE CHALLENGE

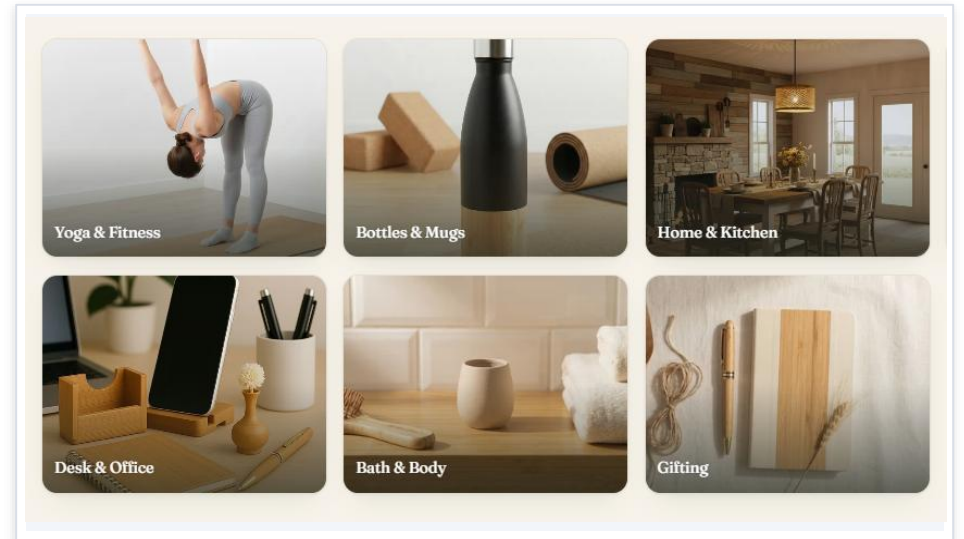
India is the world's second-largest bamboo producer, yet a fragmented, wasteful supply chain uses only a small share for materials and leaves industry reliant on imports.

SOLUTION & TECHNOLOGY

Bamboostan enables on-farm primary processing, aggregates from farmer clusters through collection centres, and routes each part of the pole to the right partner manufacturing unit, targeting twice the usual extraction of useful material. A vernacular farmer app and a manufacturer interface provide order tracking, traceability and payments, alongside carbon credits from bamboo cultivation.

ACHIEVEMENTS & VALIDATION

- Recognised among the Top 10 bamboo startups in India
- Supplies slats for plywood, incense sticks, toothbrush, charcoal and paper inputs to brands
- Cluster-based collection centres and franchised manufacturing units for scale
- Strategic advisor Kamesh Salam founded World Bamboo Day and the Global Bamboo Summit



13,812 t

Bamboo processed†

750

Acres of bamboo harvested†

90%

Recurring customers†

FOUNDERS

Siddharth Munot (Co-founder; IIT Bombay, co-founder of Bewakoof.com) · Divya Munot (Co-founder)

✉ siddharth@machau.in

ILF AGRITECH CLASSIFICATION **D11.01 Bamboo Value Chains**

Secondary Agriculture › Bamboo, Agroforestry & NTFP | Facets: E07

Myca

India & the Global South

Agentic AI and machine-learning credit scoring that run agribusiness field and credit operations.

THE CHALLENGE

Agribusinesses operate on thin margins eroded by large field teams, high staff churn, bad credit, siloed data and fraud.

SOLUTION & TECHNOLOGY

A mesh of domain-specific AI agents on top of an agribusiness's existing systems of record. FieldForce plans field-team work by reasoning over historical sales, crop calendars and local climate variables; Watchman applies machine learning to score each transaction from field ground-truth data, with audit trails and fraud detection.

ACHIEVEMENTS & VALIDATION

- Agentic field planning reported to raise advisor-to-farmer coverage from 1:10 to 1:60[†] (AgFunderNews, 2026)
- Watchman scores each transaction with ML instead of seasonal or annual credit scores
- Design partners include Olam, Bayer and ETG; pilots in India, Indonesia and Zambia
- Team previously scaled Jiva, an AI agri-fintech, to 200,000 farmers



1:10 → 1:60

Advisor-to-farmer coverage[†]

7

Design partners[†]

3

Geographies

FOUNDERS

Seamus Tardif (Co-founder & CRO; ex-Jiva, BCG Digital Ventures) · Arnav Pandey (Co-founder; ex-Jiva)

 myca.ag

 arnav@myca.ag

ILF AGRITECH CLASSIFICATION **E01 Agri Credit & Lending**

Enabling Services & Finance (primary: pure enabling service) | Facets: F02 · E05



ONO

ONO Ark India Pvt. Ltd.

Digitising mandi commission agents to connect farmers, traders, transport and credit.

THE CHALLENGE

Commission agents run India's mandi ecosystem on manual books, with little real-time visibility, costly working capital and limited trust beyond existing relationships.

SOLUTION & TECHNOLOGY

ONO CLICK digitises commission agents' books and transactions; ONO CONNECT gives farmers price and market intelligence; ONO MANDI enables mandi-to-mandi trade; ONO CASH links agents to banks for working capital and farmer advances; and ONO GAADI aggregates first-mile logistics. Transaction data builds farmer financial identity and supply-demand maps.

ACHIEVEMENTS & VALIDATION

- Play Store launch in June 2022 after a completed commission-agent pilot
- Captures full farmer trade-level data and supply-demand maps across mandist†
- ONO Mandi offices set up at APMC markets for onboarding
- Leadership drawn from Google, Amazon, HDFC Bank and IndusInd Bank

ONO MANDI OFFICE



2021 © Copyrights. ONO ARK INDIA PVT LTD. All rights reserved

www.ono.ag

18,242+

Active partners†

68,900+

App downloads†

3,800+

Monthly active users†

FOUNDERS

Rama Kancharapu (CEO) · Hemanth Balleda (COO; IIM Lucknow) · David Pokuri (CTO)



ono.ag



rama@onoark.com

ILF AGRITECH CLASSIFICATION C06.02 Mandi Modernisation

After the Farm › Agri Trading Platforms & Market Linkage | Facets: E01



SUB-SECTOR 5 OF 6

Climate, Clean Energy & Circular Bio-economy

Agroforestry and biochar carbon, agro-waste biorefining, bio-CNG, agrivoltaics, rural renewable energy and ESG intelligence that turn farm land and waste into climate value.

39 **Farmers for Forests**
Drone & AI restoration monitoring

45 **Wastelink**
Food-waste upcycling to feed

40 **Sajeevan Life**
Biochar & soil carbon

46 **Farm Watt**
Biomass to Bio-CNG

41 **Dharaksha Ecosolutions**
Stubble-based mycelium packaging

47 **Shaiva GreenCarbon**
Certified biochar & torrefaction

42 **Fermentech Labs**
Agro-waste to industrial enzymes

48 **EcoRatings**
GenAI ESG & Scope 3 platform

43 **AgriVijay**
Rural renewable-energy marketplace

49 **Marman**
IoT-verified rooftop solar

44 **Renkube**
Motion-free optical agrivoltaics



Farmers for Forests

ClimateSense Pvt. Ltd.

Incubated with ILF 2024

Drone- and AI-verified carbon and biodiversity finance that helps farmers shift to agroforestry and restore forests.

THE CHALLENGE

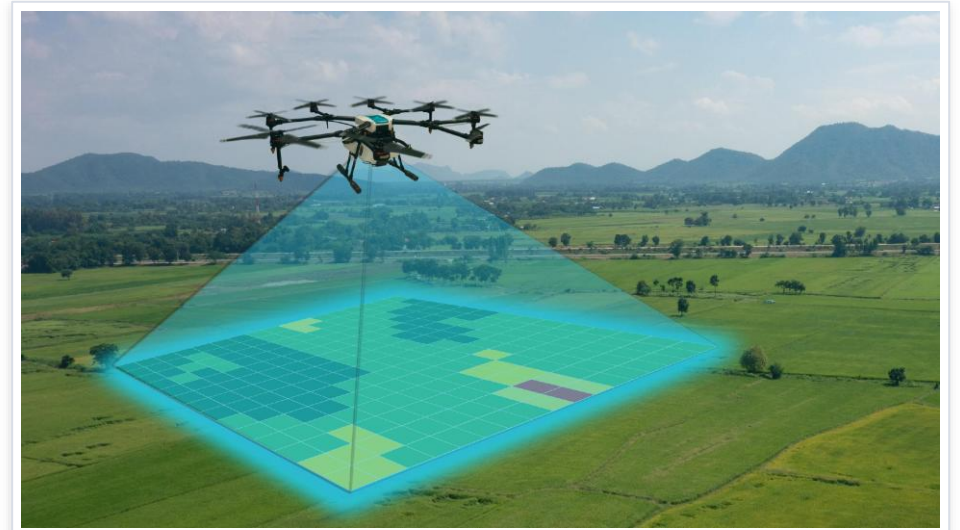
Farmers who want to move to agroforestry, which restores soil and raises long-term income, lack the knowledge, quality inputs and finance to carry them through the years before trees pay back.

SOLUTION & TECHNOLOGY

Farmers for Forests recruits and trains farmers, provides inputs and upfront financial support, and funds the transition by linking them with companies that buy high-quality carbon and biodiversity credits. Its stack — TreeLens for AI analysis of drone imagery, Field HQ for data collection and an impact dashboard — detects and measures individual trees, tracks sapling survival and estimates carbon sequestration with uncertainty quantification.

ACHIEVEMENTS & VALIDATION

- 2 million+ trees planted, on track for 10 million by 2027
- AI tree-detection models with about 90% accuracy
- Programmes in agroforestry, forest-fire prevention, human–elephant conflict prevention and biodiversity parks
- Funders and partners include Salesforce, Cisco, Accenture, HSBC, Zerodha and the World Economic Forum



2 lakh ha

Forest land under
protection & restoration

25,000

Farmers across projects

40,000+

Days of rural
employment

FOUNDERS

Krutika Ravishankar · Arti Dhar



farmersforforests.org



krutika@farmersforforests.org

ILF AGRITECH CLASSIFICATION **E07.01.04 Agroforestry and afforestation projects**
Enabling Services & Finance › Carbon, Climate & Environmental Markets › Carbon Project Development
| Facets: F03 · F02 · F04



Sajeevan Life

Sajeevan Life Pvt. Ltd.

CIN U47737GJ2023PTC142040 · Incorporated 2023 · Rajkot, Gujarat · Incubated with ILF 2023

Invasive-biomass biochar, soil regeneration and carbon removal for smallholder and tribal farmers.

THE CHALLENGE

Chemical farming has degraded soils, invasive species are shrinking cultivable land, and rural women remain excluded from carbon markets.

SOLUTION & TECHNOLOGY

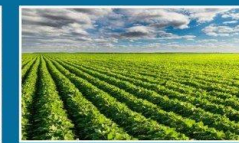
Converts invasive woody biomass (*Prosopis juliflora*, *Lantana camara*) into biochar by controlled pyrolysis, locking carbon in a stable form for carbon-removal credits and using the char as a soil amendment. This is combined with the Amrut Krushi and Magical Mitti methods for turning farm waste into fertiliser, plus biodigesters and agroforestry.

ACHIEVEMENTS & VALIDATION

- 12,000+ MT artisanal biochar produced; 44,000+ carbon credits generated from biochar†
- Supported organic certification of 13,500 Dang farmers through an Internal Control System with Gujarat
- 10,000+ farmers trained in Amrut Krushi and Magical Mitti soil-regeneration methods
- Millionaire Farmer of India (MFOI) 2024; ICAR-IARI Best Farmer Award 2025-26; PepsiCo RevolutioNari

Sajeevan Life: Transforming Rural India

Sajeevan Life Pvt Ltd is a regenerative agri-enterprise empowering over 20,000 smallholder and tribal farmers across Bharat.



13,500

Farmers supported to certify

10,000+

Farmers trained

84

FPOs registered

FOUNDERS

Nita Kanani (Founder) · Sandeep Sabharwal (Co-founder & Director)



sajeevan.co.in



purv.kanani@sajeevan.co.in

ILF AGRITECH CLASSIFICATION **D07.01 Biochar & Carbon Products**

Secondary Agriculture › Biomaterials & Biochemicals | Facets: E07.01 · E07.04



Dharaksha Ecosolutions

Dharaksha Ecosolutions Pvt. Ltd.

Mycelium bio-materials grown on crop stubble that replace thermocol in protective and cold-chain packaging.

THE CHALLENGE

Stubble burning chokes North India every winter, while protective packaging relies on thermocol, which is barely recycled and still lets fragile goods break.

SOLUTION & TECHNOLOGY

Agricultural stubble is inoculated with proprietary fungal cultures and grown under controlled conditions into moulded, heat-sterilised mycelium parts. Dharaksha's first-of-a-kind BCAC machine automates blending, sterilisation and inoculation in one closed loop, treating growth as a factory line; the material is flame-retardant, water-resistant and anti-static.

ACHIEVEMENTS & VALIDATION

- Breakage below 2% for fragile goods; 3x the shock absorption and 20% better insulation than thermocol†
- Mycelium Ice Box piloted with a national diagnostics company from October 2025
- Rejections cut from 55% to under 10%, manpower by 60% and energy to a third of conventional processes†
- National Bio Entrepreneurship Competition, Emergent Ventures and PUSA-UPJA Agri Hackathon; founder in Forbes 30 Under 30

Introducing an Engineered Material That Absorbs Shock, Not Profits.

Our mycelium-based packaging is a high-performance bio-material designed for the demands of the modern supply chain.

3x Stronger than thermocol

Shock Absorption: Absorbs impact 3x better rather than transferring it.

Thermal insulation: Offers 20% better thermal insulation than conventional materials

Space Efficient: Saves up to 20% volumetric space compared to conventional packaging

Advanced Properties: Naturally flame retardant, water resistant, and anti-static.

<2%

Breakage rate for fragile goods†

850x

Liquid-culture scale-up in 12 months†

100%

Biodegradable

FOUNDERS

Arpit Dhupar (Founder & CEO; Forbes 30 Under 30) · Anand Bodh (Co-founder & CGO)

dharaksha.com

arpit@dharaksha.com

ILF AGRITECH CLASSIFICATION D07.03 Natural Fibres & Composites

Secondary Agriculture › Biomaterials & Biochemicals | Facets: F10



Fermentech Labs

A patented solid-state fermentation bioreactor that turns agro-industrial waste into industrial enzymes.

THE CHALLENGE

India generates about 350 million tonnes of agro-waste a year. Burning it as fuel is limited by low density, high ash and safety risk, while the industrial enzymes that factories need remain largely imported.

SOLUTION & TECHNOLOGY

Fermentech's novel solid-state fermentation (SSF) bioreactor allows high, aseptic loading of agro-residues with in-situ pretreatment and product recovery, using proprietary microbial strains deposited at the MTCC culture bank. It converts orange peel, wheat bran, cotton-spinning waste, sugarcane grass and pine needles into pectinase, amylase, xylanase and cellulase for textiles, bakery, juices and feed, with prebiotic and fuel co-products.

ACHIEVEMENTS & VALIDATION

- Two patents granted (Nos. 517060 and 557354) and one filed; validations published in peer-reviewed international journals
- Enzymes validated by textile processors in Italy (Beste, Berto, Tonello) and India (Welspun, KG Fabriks, Arvind)
- FSSAI-certified; xylanase in commercial bakery use and pectinase clarifying apple juice in industrial trials
- Environmental impact assessed by Sphera, with footprints up to ~97% below the base case†

**2**

Patents granted

4

Industrial enzymes

6Textile-industry
validations

FOUNDERS

Dr. Sidharth Arora (Founder & CEO)

✉ ceo@fermentechlabs.com

ILF AGRITECH CLASSIFICATION **D08.01 Industrial Enzymes**

Secondary Agriculture › Fermentation & Industrial Biotechnology | Facets: F10



AgriVijay

Founded 2020 · Pune, Maharashtra

A phygital marketplace for renewable-energy and agritech products for farmers and rural households.

THE CHALLENGE

Farms and rural homes depend on diesel, grid power and firewood, while renewable technologies reach them poorly through dealer networks with little advisory or after-sales support.

SOLUTION & TECHNOLOGY

An AI-enabled store and WhatsApp chatbot in local languages gives personalised energy advisory, backed by village-level franchise Renewable Energy Stores, field technicians and a call centre. The platform lists 200+ SKUs from 60+ brands — solar pumps, refrigerators and dryers, biogas digesters and e-toolbars — with EMI financing, long warranties and free solar insurance.

ACHIEVEMENTS & VALIDATION

- Winner, SolarX Challenge 2024 (ISA, MNRE, Invest India) and Avinya Startup Challenge 2025 (MoPNG, ONGC, FIPI)
- NASSCOM SME Inspire Award; Forbes India Select 200; CII Global Power 100: Women in Innovation
- B2B2C projects: solar smart classrooms, solar refrigeration and street lighting across six states
- Scaling agrivoltaics with vertical bifacial solar in partnership with Next2Sun



2,070+

Renewable-energy products installed†

1.24 lakh t

CO₂e emissions abated†

66,000+

Women impacted†

FOUNDERS

Vimal Panjwani (Founder & CEO) · Shobha Chanchlani (Co-founder & Director)



agrivijay.com



vpanjwani@agrivijay.com

ILF AGRITECH CLASSIFICATION **A08.05 Input Retail & Last-Mile Delivery**

Before the Farm › Farm Consumables & Ancillaries | Facets: E01 · F02



Renkuba

Renkuba Pvt. Ltd.

Motion-free optical tracking for vertical solar panels: agrivoltaics that keep farmland fully productive.

THE CHALLENGE

India's solar targets need thousands of square kilometres of land, competing with farming, while the mechanical trackers that raise output are capital-intensive, need skilled maintenance and rely on motors that last about ten years.

SOLUTION & TECHNOLOGY

Renkuba's micro-grooved glass reflector uses total internal reflection to redirect sunlight onto vertically installed panels on all 365 days, with no moving parts and a reflector life of about 100 years. Its geometry comes from an AI-driven topology-optimisation algorithm. Vertical rows leave the land between them open and lit, so crops grow alongside power generation, with water savings and protection from hail and heat waves.

ACHIEVEMENTS & VALIDATION

- 10 kWp agrivoltaic pilot with PJTSAU, Telangana, across Rabi, summer and Kharif seasons, November 2022 to November 2023
- Tomato, chilli and palak outyielded open-field plots (107%, 106% and 104%); cabbage reached 99% and carrot 98%
- Up to 60% higher energy yield from the same panels†
- Member of the India Agri Voltaic Alliance; targeting farmers under PM-KUSUM Component A



20

95%

Crop yield vs open field†

+60%

Energy yield†

100 yrs

Reflector life, no moving parts



CONTACT



lakshmi@renkuba.com

ILF AGRITECH CLASSIFICATION **B14.01.02 Vertical and inter-row bifacial PV systems**

Inside the Farm › Agri-Energy & Farm Renewables › Agrivoltaics (Agri-PV) | Facets: F11 · F02



Wastelink

Forplanet Ingredients Pvt. Ltd.

Incubated with ILF 2021

Upcycling food-industry waste into sustainable animal-feed ingredients.

THE CHALLENGE

Food manufacturers generate large volumes of waste across their supply chains that usually goes to disposal, adding greenhouse-gas emissions.

SOLUTION & TECHNOLOGY

Proprietary, patented upcycling processes convert food waste into animal-feed ingredients sold under the Ecofeed brand. An integrated technology platform tracks waste from the point of collection through upcycling and directly quantifies the greenhouse-gas emissions avoided by each tonne diverted from disposal.

ACHIEVEMENTS & VALIDATION

- Two patents on food-waste upcycling processes†
- Directly quantifies GHG emissions avoided by diverting food waste
- Supplies sustainable feed ingredients to leading animal nutrition companies
- Helps leading food manufacturers meet zero-waste and circular-economy goals



Wastelink

PRODUCTS IN THE MARKET

Ecofeed sustainable feed ingredients · Waste-to-feed traceability platform

25

Customers among food
& feed companies†

600

Jobs generated†

2

Patents†

FOUNDERS

Saket Dave · Krishnan Kasturirangan



krishnan@wastelink.co

ILF AGRITECH CLASSIFICATION C09.02 Waste-to-Feed Conversion

After the Farm › Innovative Feed & Pet Nutrition



Farm Watt

Farmwatt Innovations Pvt. Ltd.

CIN U35105DL2023PTC410523 · Incorporated 2023 · New Delhi

Biomass aggregation and anaerobic-digestion value chain turning crop residue into Bio-CNG.

THE CHALLENGE

Around 92 million tonnes of stubble are burned in India every year, fuelling air pollution and soil degradation, while bioenergy plants lack reliable feedstock.

SOLUTION & TECHNOLOGY

An integrated biomass supply chain: crop-residue collection, baling and storage at Farm Urja Kendra hubs; Napier grass contract farming as a high-yield energy crop; and design, installation and O&M of anaerobic-digestion biogas/CBG plants. Digestate is converted into fermented organic manure, with biochar and bio-pellet units planned.

ACHIEVEMENTS & VALIDATION

- 15 biomass aggregation hubs across 6 states supplying compressed-biogas and bioenergy plants
- Converts anaerobic-digestion digestate into fermented organic manure for soil health
- Advisory board includes Gregory Krupnikovs (European Biogas Association) and Ludwig Hermann
- 100,000 kWh energy generated and 1,000+ t CO₂ avoided†; Krishi Bhushan Award (ISED) to founder



15

Biomass aggregation
hubs

6

States with operations

10,000+

Farming families
engaged†

FOUNDERS

Kumar Neelendu (Founder & CEO; 23+ yrs rural development & renewable energy)

 farmwatt.co.in

 info@farmwatt.in

ILF AGRITECH CLASSIFICATION **D06.01 Compressed Biogas & Biogas**

Secondary Agriculture › Bioenergy & Biofuels | Facets: F01



Shaiva GreenCarbon

Pyrolysis facility at Sanchore, Rajasthan

Continuous rotary pyrolysis and torrefaction turning biomass into certified biochar, bio-coal and carbon removal.

THE CHALLENGE

Crop residues and invasive biomass such as *Prosopis juliflora* are burned or wasted, while batch kilns produce biochar of inconsistent quality for carbon markets.

SOLUTION & TECHNOLOGY

A modular, containerised platform with two modules: a continuous rotary slow-pyrolysis kiln (350–550 °C, 10 TPD) producing biochar with recirculated syngas, and continuous torrefaction (220–350 °C) making hydrophobic, co-firing-ready bio-coal of 20–22 MJ/kg. PLC automation and integrated heat recovery allow 24/7 operation on feedstock with up to 45% moisture.

ACHIEVEMENTS & VALIDATION

- India's first Isometric-certified biochar producer (Class 1)
- Certified biochar with H/Corg of 0.33–0.38 and 80.9% organic carbon
- Pyrolysis operational and torrefaction validated at TRL 7, with 100+ operating hours
- Engineering team with IIT and NTPC reactor-design experience; patented designs

TECHNOLOGY PARTNER

Shaiva GreenCarbon

SGC is a climate-tech company developing proprietary pyrolysis and torrefaction technology that converts organic waste and biomass into premium biochar, bio-coal and organic fertilizer — with carbon-credit generation as a core revenue stream.

Isometric Certified

India's first isometric-certified biochar producer — the gold standard for carbon-removal credits. Facility verified for H/C ≤ 0.40 and C_{org} > 75%.

Operating Facility

Sanchore Pyrolysis Facility, Rajasthan — continuous rotary kiln reactor, operational and producing certified biochar today.

IIT & NTPC Pedigree

Founding team brings 20+ years across trading, operations and energy. Engineering team with IIT and NTPC experience in reactor design.

Four Revenue Lines

Equipment supply, EPC contracts, carbon credits, and O&M services — diversified beyond single-stream dependency.



10 TPD

Pyrolysis capacity

85%

Thermal efficiency captured†

TRL 7

Both process modules



CONTACT



connect@shaivaenergy.com

ILF AGRITECH CLASSIFICATION **D07.01 Biochar & Carbon Products**

Secondary Agriculture › Biomaterials & Biochemicals | Facets: E07



EcoRatings

EcoRatings (Sustaining.AI)

A generative-AI platform that unifies ESG data for sustainability reporting, Scope 3 tracking and net-zero planning.

THE CHALLENGE

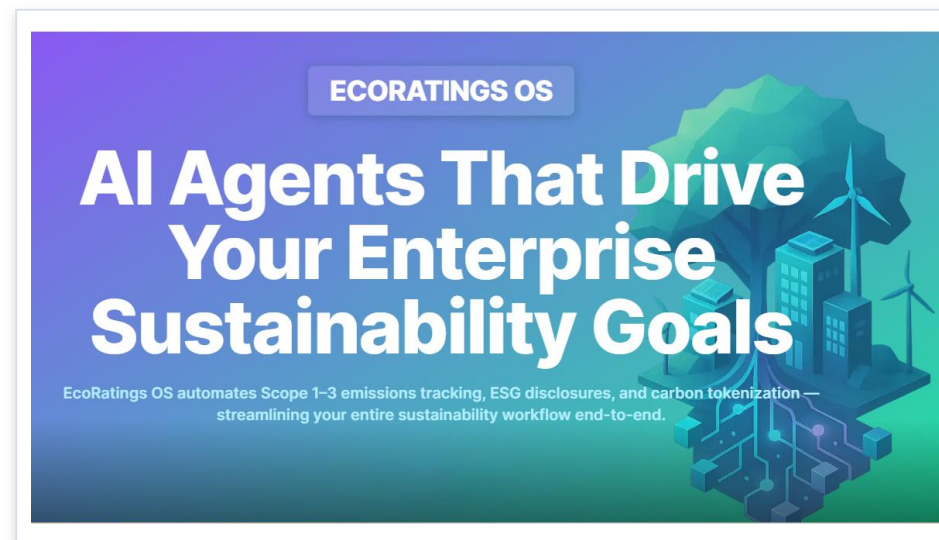
Enterprises, including agri and food companies, face growing sustainability disclosure and audit requirements, but their ESG data sits scattered across ERPs, supplier records and paper bills, making reporting slow, manual and error-prone.

SOLUTION & TECHNOLOGY

A large language model with a retrieval-augmented generation (RAG) architecture runs inside the enterprise environment and integrates with ERPs to unify disparate datasets. It automates data extraction from bills and documents, tracks Scope 1, 2 and 3 emissions, and supports decarbonisation strategy, gap analysis, benchmarking and ratings in a framework-, industry- and geography-agnostic way.

ACHIEVEMENTS & VALIDATION

- Use cases delivered for Jio (Scope 3 data from ~200 suppliers), Adani Green, Marks & Spencer, L&T Foods and HPL Additives
- Supported the programme that made Naukuchiatal a plastic-free zone, and an e-waste management programme in Agra
- Impact assessment and need-gap report for an EcoVadis score improvement delivered within days†
- Founders include a UNEP Fellow and UNWTO awardee, and the technology leader who scaled RateGain through its IPO



15

Corporate clients†

16

Partnerships in pipeline†

60+ yrs

Combined founder expertise

FOUNDERS

Aditi Balbir (Co-founder & CEO) · Aqeel Ahmed (Co-founder & COO) · Shruti Anand (Co-founder & CGO)

✉ aditi@ratings.eco

ILF AGRITECH CLASSIFICATION **E07.05.04 ESG and sustainability reporting**

Enabling Services & Finance › Carbon, Climate & Environmental Markets › Corporate Sustainability Services | Facets: F02 · F07



Marman

Marman Climate Smart Technology Pvt. Ltd.

CIN U72900DL2022PTC399777 · Incorporated 2022 · Gurugram / Delhi

IoT-verified, performance-guaranteed rooftop solar for Indian SMEs.

THE CHALLENGE

Households, farmers and small businesses miss out on clean energy because of limited access, low awareness, quality concerns and unreliable vendors.

SOLUTION & TECHNOLOGY

A climate-tech platform that pairs cash-flow-based customer assessment with curated EPC and O&M vendors. IoT monitoring on every installation verifies a contractual generation guarantee of 1,250 kWh per kWp per year, with vendors covering any shortfall, for 50–300 kWp rooftop systems.

ACHIEVEMENTS & VALIDATION

- IoT monitoring built into all installations verifies contractual solar yield†
- Rooftop solar deployments in India since 2024
- Carbon-credit-linked offerings for customers†
- Winner, BITS Pilani Conquest 2025 Demo Day



Marman

**MARMAN CLIMATE SMART
TECHNOLOGY PVT. LTD.**



**CleanTech-As-A-Service
for the underserved**



1,250 kWh

Guaranteed yield per
kWp a year†

50–300 kWp

System size served

4

Cities served†



FOUNDERS

Deepak Gupta (Co-founder & MD) · Anurag Sood (Co-founder & President)



marmangsv.com



info@marmangsv.com

ILF AGRITECH CLASSIFICATION **B14.03 Farm Energy Efficiency, Storage & Electrification**

Inside the Farm › Agri-Energy & Farm Renewables | Facets: F01 · E07



SUB-SECTOR 6 OF 6

Food, Nutrition, Health & Bio-sciences

Precision fermentation, traceable and organic foods, forest-produce value chains, functional nutrition and affordable health technology from farm to consumer.

50 **Farmley**
Farm-direct nuts & healthy snacks

57 **KisaanSay**
FPC-sourced grocery brand

51 **FarmDidi**
QR-traced food quality

58 **Ruhvenile Biomedical**
Electricity-free oxygen & diagnostics

52 **Genexis Biotech**
Precision-fermented proteins

59 **Munico Foods**
Millet probiotic beverages

53 **Praakritik**
Farmer-direct organic staples

60 **Bettrlabs**
AI product-development platform

54 **Feedsco**
Hyperlocal MSME-made snacks

61 **Anmasa**
Made-to-order slow-milled atta

55 **WholeLeaf**
Phyto-cannabinoid therapeutics

62 **Nutrisum**
Diabetes-friendly snacks

56 **Tribalveda**
Forest-fruit processing by tribal women



Farmley

Established 2017 · Pan-India, with exports to the US, the Middle East and Australia

A full-stack, farm-to-consumer nuts, dry fruits and healthy-snacking brand.

THE CHALLENGE

Nuts and dry fruits pass through several intermediary layers between farm and shelf, which weakens quality control and traceability for consumers and leaves farmers without fair, assured demand.

SOLUTION & TECHNOLOGY

Farmley sources directly from a network of 5,000+ farmers, removing two to three intermediary layers, and runs five in-house processing units for quality control. It sells 100+ SKUs, from premium nuts, seeds and makhana to trail mixes, date bites and flavoured roasted snacks, through Amazon, Flipkart, Blinkit, Zepto, Swiggy Instamart, BigBasket, modern trade and neighbourhood retail, with farm-to-palm traceability.

ACHIEVEMENTS & VALIDATION

- Co-founders Akash Sharma and Abhishek Agarwal named in Forbes India 30 Under 30 (2024)
- Recognised as one of India's fastest-scaling agri-food brands after moving from B2B to a consumer brand in 2021
- Five proprietary processing units and a 400+ strong team
- International presence in the US, the Middle East and Australia



5,000+

Farmers in direct supply network†

10,000+

Retail outlets across India†

100+

Products across snacking formats

FOUNDERS

Akash Sharma (Co-founder & CEO; IIT alumnus) · Abhishek Agarwal (Co-founder & Director; IIT Roorkee)

 farmley.com

 akash@farmley.com

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands
After the Farm › Retail, eGrocery & Foodservice



FarmDidi

Missiondidis Pvt. Ltd.

CIN U72900MH2021PTC371816 · Incorporated 2021 · Pune, Maharashtra · Incubated with ILF 2025

Tech-enabled quality control and QR traceability for preservative-free foods made by rural women.

THE CHALLENGE

Mass-market pickles rely on preservatives and cheap ingredients, while millions of rural women in self-help groups lack a stable source of income.

SOLUTION & TECHNOLOGY

A digital platform that onboards and trains rural women producers and runs technology-based quality control. Recipes are lab-tested, production is small-batch and free of chemical preservatives, and a QR code on every jar traces the product back to the woman who made it. Products sell through D2C and quick-commerce channels.

ACHIEVEMENTS & VALIDATION

- QR-code traceability on every jar links each product to its individual maker
- “Traditional, Tested, Traceable” model with lab-verified quality and safety†
- Featured on Shark Tank India Season 3; SDG Entrepreneurs of India (NITI Aayog, AIM)
- Sankalp Bharat Award 2025; Women-Led Startup of the Year, Navbharat Startup Summit 2025



8 lakh

Customers†

2,000

Rural women in network†

30,000+

Orders a month†

FOUNDERS

Manjari Sharma (Co-founder, Chief Didi) · Asmita Ghodeswar (Co-founder & CTO) · Anukrit Johari (Co-founder)



farmdidi.com



manjari@farmdidi.com

ILF AGRITECH CLASSIFICATION **C10.03 Direct-to-Consumer Brands**

After the Farm › Retail, eGrocery & Foodservice | Facets: F08



Genexis Biotech

Genexis Biotech Pvt. Ltd.

CIN U24304GJ2019PTC110276 · Incorporated 2019 · Vadodara, Gujarat · Incubated with ILF 2023

Precision fermentation for animal-origin-free growth factors and cell-culture proteins.

THE CHALLENGE

Cultivated meat, stem-cell research and biopharma depend on costly, variable animal-derived growth factors and serum, often imported.

SOLUTION & TECHNOLOGY

A strain-engineering platform: bacteria and yeast are engineered to express recombinant proteins (FGF2, EGF, TGF- β 1, IGF-1, VEGF, PDGF, cytokines) from glucose and basic salts through precision fermentation, followed by in-house purification in a Class 10,000 cleanroom, with about 20x yield over industry benchmarks[†].

ACHIEVEMENTS & VALIDATION

- Two patent applications filed on its protein-production innovations
- Class 10,000 certified production facility; proteins validated at a USFDA-GLP approved lab
- MoU with Government of Gujarat (2023); showcased at Global Bio-India 2024
- Member, AstraZeneca Open Innovation; cell-culture project completed for Reliance Industries



~20x

Protein yield vs
benchmark[†]

15-20+

Recombinant proteins
developed[†]

60

Customers[†]



FOUNDERS

Vipul Kumar (Co-founder; ex-Biocon) · Dr. Jitendra Wagh (Co-founder; PhD, molecular biology)



[genexisbiotech.com](https://www.genexisbiotech.com)



info@genexisbiotech.com

ILF AGRITECH CLASSIFICATION **D08.04 Precision Fermentation**
Secondary Agriculture › Fermentation & Industrial Biotechnology | Facets: F10



Praakritik

Established 2016 · Mumbai, Maharashtra

A certified-organic staples brand built on direct farmer-to-consumer sourcing and fair trade.

THE CHALLENGE

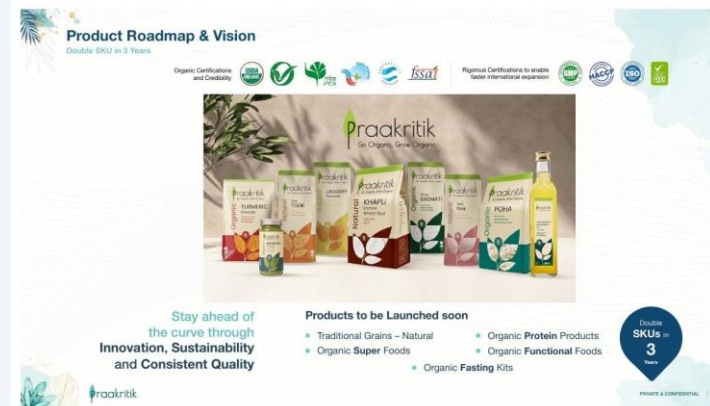
Consumers face chemical-heavy food and opaque ingredient sourcing, while certified organic farmers lack assured, fair-priced routes to market.

SOLUTION & TECHNOLOGY

Praakritik sources directly from certified organic farmers and FPOs under strict SOPs with recurring lab tests, and sells 100+ products through modern and general trade, quick commerce, e-commerce and exports. Tight supply-chain planning delivers a 99% fill rate, 36-hour dispatch and returns below 4%.

ACHIEVEMENTS & VALIDATION

- Best Organic Brand in Domestic Market, Jaivik India Awards 2022
- Inc42 '30 Startups to Watch' 2023; YourStory Brands of New India
- Market leader in khapli atta; a top-four brand in its category on quick commerce
- Founded The Mumbai Organic Fest, reaching 1 lakh+ homes



1,500+

Organic farmers in network†

600+

Stores in India & Singapore†

14.2 lakh

Items sold in FY25†

FOUNDERS

Dharmishtha Goenka (Founder & CEO; IIM Ahmedabad, King's College London)



praakritik.com



dg@praakritik.com

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands

After the Farm › Retail, eGrocery & Foodservice | Facets: E06



Feedsco

Feedsco Global Pvt. Ltd.

Captive units in Bhopal, Chhindwara and Neemuch (MP) and Naroda (Gujarat)

A tech-enabled, hyperlocal snacking brand bringing hygienic, affordable, regional-taste snacks to Bharat's kiranas and tea stalls.

THE CHALLENGE

About 80% of India's snacking market is unorganised. Vernacular snacks from family-run MSMEs dominate Tier II and III towns but often lack hygiene, labelling and food-safety compliance, while small distributors struggle to source a full basket of products.

SOLUTION & TECHNOLOGY

Feedsco runs autonomous regional clusters, each with a captive manufacturing hub and partner MSME units producing a basket of regional products under standard SOPs, pre-dispatch QC, shelf-life studies and periodic lab tests. Operations run on its TRANZACT ERP, and the Munch Bazar app gives small wholesalers vernacular ordering, live stock visibility and UPI payments. Products reach kiranas, tea stalls and pan shops within a 150 km radius, alongside e-commerce and quick commerce.

ACHIEVEMENTS & VALIDATION

- Best Startup of Madhya Pradesh, chosen from 300+ nominations and presented by the Chief Minister; Bharat Entrepreneur Award 2025
- Selected among India's top 100 startups for APEDA's export-enablement mentorship programme
- FSSAI Central Licence, ISO 22000:2018 and Halal certification; compliance-as-a-service helps partner MSMEs formalise
- Ranked #1 in the Cookies category on Meesho, with the highest ratings and reviews†

Hyperlocal Manufacturing | Hyperlocal Distribution | Hyperlocal Products

Placed Front and Center,



Our Products occupy Majority of Visibility & Shelf Space, Winning Customer attention

20,000+

Retailers served†

350+

Distributors in network†

130

MSMEs supported directly†

FOUNDERS

Yash Sethia · Vijendra Kumar · Rakesh Singh · Manish Jha (Co-founders) · Advisor: Sanjiv Rangrass (ex-CEO, ITC Ltd.)

 feedsco.com

 yash.s@feedsco.com

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands

After the Farm › Retail, eGrocery & Foodservice | Facets: F07 · F06



WholeLeaf

Whole Leaf Organics Pvt. Ltd.

CIN U24239DL2020PTC374826 · Incorporated 2020 · Gurugram / New Delhi · Incubated with ILF 2025

Clinically studied Ayurvedic cannabinoid-herbal formulations for chronic pain management.

THE CHALLENGE

More than 120 million Indians live with chronic pain, and conventional pain drugs carry risks of side effects, toxicity and dependence.

SOLUTION & TECHNOLOGY

Proprietary Ayurvedic formulations that combine Vijaya (cannabis leaf) extracts, sourced only from state-authorised suppliers, with synergistic herbal phytochemicals targeting inflammation and pain-signalling pathways. Delivered as topical oils, balms, roll-ons and oral tinctures, with third-party cannabinoid profiling in government-authorised laboratories.

ACHIEVEMENTS & VALIDATION

- 13 clinical studies initiated; 2 completed with 50–75 participants each, 76%+ reporting meaningful relief†
- Products under Ministry of AYUSH licensing; GMP-certified manufacturing with third-party testing
- Six-product pain portfolio for migraine, arthritis, back, muscle and menstrual pain
- Research under way on formulations for chronic neuropathic pain



1 lakh+

Customers served

~1,000

Retail outlets

2

Clinical studies completed†

FOUNDERS

Shivraj Sharma (Founder & CEO) · Abhimanyu Sharma (Director)



wholeleaf.in



info@wholeleaf.in

ILF AGRITECH CLASSIFICATION **D09.03 Herbal & AYUSH Products**

Secondary Agriculture › Medicinal & Aromatic Plants | Facets: F10



Tribalveda

Jovaki Agrofood India Pvt. Ltd. (brand: Tribalveda)

Value chains for under-used forest fruits that create year-round livelihoods for tribal women.

THE CHALLENGE

Wild forest fruits such as jamun rot within days in tribal areas for lack of processing, so tribal women earn only seasonally and forests come under pressure.

SOLUTION & TECHNOLOGY

Village-level units run by tribal women process wild fruit into preservative-free, no-added-sugar pulp with a 12-month shelf life, against about two months for conventional pulp. Research partnerships with BARC and CSIR-CFTRI underpin the process; pulp goes to B2B buyers and to the Tribalveda range of diabetic-friendly jamun products.

ACHIEVEMENTS & VALIDATION

- 5 lakh kg of wild fruit and vegetables processed across 48 villages
- Research partnerships with Bhabha Atomic Research Centre and CSIR-CFTRI
- Supported by Rainmatter, Benzai 10, Samunnati, HDFC Bank, ICICI Foundation and DBS Foundation
- 12-product jamun D2C line; 20 more wild fruits, including amla, bel and cactus, in the pipeline

D2C Product highlight

- D2C Jamun based health product brand **Tribalveda**
- Great medicinal property found in entire Jamun tree
- Innovative products made from Jamun fruit especially focusing on Diabetic suffering population
- Vision is to create a broader Market place for the unique & diverse forest producers similar to "FABINDIA" & "TRIFED" has done for handicrafts.



5,000+

Women in indirect employment†

40 lakh

Trees preserved†

20,000

Lives impacted†



CONTACT



tribalveda.in



jovakiagrofood@gmail.com

ILF AGRITECH CLASSIFICATION **D11.03 Non-Timber Forest Produce**

Secondary Agriculture › Bamboo, Agroforestry & NTFP | Facets: E08



KisaanSay

India's first cross-category, direct-from-origin grocery brand built with farmer producer companies.

THE CHALLENGE

Farmer producer companies grow distinctive regional food but lack the branding, compliance, packaging and distribution needed to reach premium consumers at scale.

SOLUTION & TECHNOLOGY

A 3C model — co-curate, co-brand, co-profit — in which KisaanSay standardises FPC products and processes (licences, lab testing, nutrition labelling, legal metrology), builds a shared brand and runs marketing and distribution. Products are grown and packed at source, with QR-code farm traceability on a digitised operating platform.

ACHIEVEMENTS & VALIDATION

- First private-sector food brand in India to offer a profit share to farmers
- Asset-light, no-capex model that integrates FPCs on a plug-and-play basis
- Range spans dry fruits, pulses, spices, millets, rice, honey, juices and namkeens
- Sold through its webstore, retail stores and consumer events



20

FPCs in network

50,000

Farmers linked

70

SKUs

FOUNDERS

Nitin Puri (Founder) · Vaishali Puri · Manoj Karki (Co-founders)

✉ nitin.puri@kisaansay.in

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands

After the Farm › Retail, eGrocery & Foodservice | Facets: E06



Ruhvenile Biomedical

Ruhvenile Biomedical OPC Pvt. Ltd.

Incubated with ILF 2020–21

Indigenous, affordable medical technologies for public health.

THE CHALLENGE

Hospitals and health units in low- and middle-income countries lack affordable, simple access to medical oxygen, diagnostics and sample preservation.

SOLUTION & TECHNOLOGY

Oxy-Deal is an electricity-free oxygen generator built from commercially available raw materials, designed for safe use without technical expertise (MVP ready). The wider portfolio spans diagnostics, bio-preservation and antimicrobial-resistance technologies, including truLysis™ for low-cost TB detection.

ACHIEVEMENTS & VALIDATION

- One of 10 Global Good Fund Fellowship winners, 2026, from 3,600 applicants
- BiomLife® and truGnom® listed in the Atlas of Innovation to end TB (Gates Foundation, The Union, ICMR)
- Deep Tech Pioneer, Hello Tomorrow (Paris); Top 8, G20 YEA Summit 2023; NBEC winner 2022
- Co-developed oxygen generators with IIT Tirupati during COVID-19



10

Products commercialised†

300

Customers†

65

Jobs generated†

FOUNDERS

Dr. Rajkumar Halder (Founder)

 ruhvenile.com

 info@ruhvenile.com

ILF AGRITECH CLASSIFICATION Not mapped

Human-health technology with no agri-food node in v2.3



Munico Foods

Berhampur, Odisha

Millet-based probiotic drinks and traditional foods built with rural women and farmers.

THE CHALLENGE

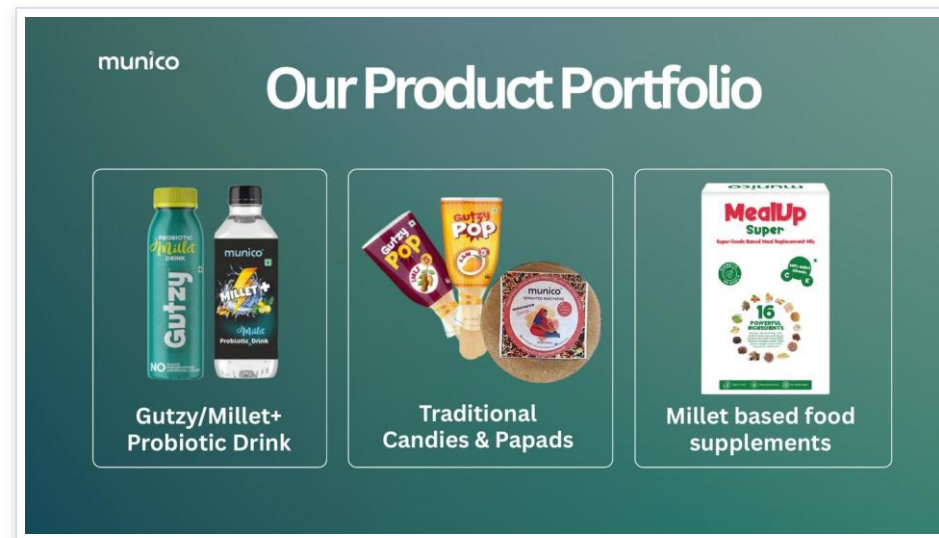
Traditional fermented foods and millets are giving way to packaged, sugar-heavy options, while rural producers lack routes to urban markets.

SOLUTION & TECHNOLOGY

Inspired by Tanka Torani, a traditional Odia drink, Munico developed Millet+, a sugar-free, preservative-free millet probiotic beverage whose shelf life is extended by an in-house fermentation and storage technique combining automation with traditional methods. The range also includes Gutzy probiotics, traditional candies and papads, and millet supplements.

ACHIEVEMENTS & VALIDATION

- Best Millet Beverage Award 2025 from ICAR–Indian Institute of Millet Research, at T-Hub
- Incubated at Nutrihub, ICAR-IIMR; MoU with IIT Kharagpur to standardise probiotic manufacturing
- Best Emerging Brand 2025, presented by the Chief Minister of Odisha
- One of 20 Odisha agritech startups with an OUAT mentoring MoU



0 g

Sugar per 100 ml of Millet+

50

Employees†

6

Registered brands†

FOUNDERS

Satyabrath Muni (CEO; IIM Ahmedabad, NIT Rourkela) · Sandhyarani Muni (Head R&D; National Award 2008)

 municofoods.com

 municofoods@gmail.com

ILF AGRITECH CLASSIFICATION **C08.06 Health, Nutrition & Personalisation**

After the Farm › Innovative Food & Alternative Proteins | Facets: E08



Bettrlabs

IITM Research Park, Chennai

An AI-native platform that takes food, wellness and FMCG products from idea to market.

THE CHALLENGE

Brands face long timelines, expensive prototypes, third-party lab delays and shifting regulation when developing new food and wellness products.

SOLUTION & TECHNOLOGY

Bettrlabs combines CloudLabs (digital formulation and simulated prototyping), Compliance AI (automated regulatory checks against FSSAI, EFSA and FDA frameworks), COGS forecasting, market insights and BettrMatch, a marketplace of vetted ingredient suppliers and contract manufacturers, cutting research cycles from months to days.

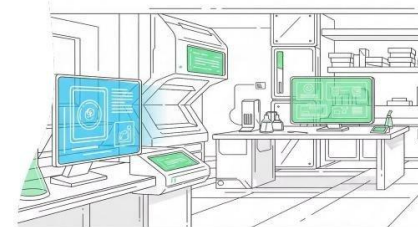
ACHIEVEMENTS & VALIDATION

- Compliance AI with ~95% accuracy in food, wellness and nutraceuticals†
- Proprietary dataset of 1,000+ profiled ingredients
- Vahdam Tea case: competitor and whitespace reports cut from two weeks to under an hour†
- Co-founder Dr. Beena Rai: Fellow, INAE; former Chief Scientist at TCS; 180+ patents



Platform for **Next-Gen** Product Development

Faster • Smarter • Safer
Built for FMCG, food, wellness, and beyond.
Transforming how teams build products.



160+

Brands in beta†

25+

Suppliers onboarded†

8

Active pilots†

FOUNDERS

JP Mohanty (Co-founder, Growth) · Dr. Beena Rai (Co-founder & Chief Scientist) · Ravinkumar S · Prathap Raj



bettrlabs.com



jp@bettrlabs.com

ILF AGRITECH CLASSIFICATION C07.07.06 Food product formulation and R&D platforms

After the Farm › Food & Agri Processing › Processing Equipment & Technology | Facets: F02



Anmasa

Gurugram, Haryana

Slow stone-milled, made-to-order atta and staples delivered fresh within 90 minutes.

THE CHALLENGE

Packaged atta is milled months ahead at high speed and loses nutrients, while local chakkis offer freshness but little hygiene, convenience or consistency.

SOLUTION & TECHNOLOGY

Anmasa mills grain on demand on stone mills at about 50 rpm, against roughly 1,440 rpm in high-speed milling, to retain fibre, protein and flavour, in experiential stores where customers watch milling live. Orders by app, website or WhatsApp allow custom grain blends and textures, fulfilled from neighbourhood stores on an ERP-integrated omnichannel stack.

ACHIEVEMENTS & VALIDATION

- Nine stores across Gurugram, Noida and Ghaziabad, supported by a central unit
- Net Promoter Score of 73, with 84% promoters on Google reviews
- 46% 90-day repeat rate; 80% of customers who place four orders keep ordering
- Founder previously co-founded and led Milkbasket

ANMASA OPPORTUNITY
FRESHNESS WITH CONVENIENCE

Made-to-Order Freshness

- Slow-milled at 50 rotations per minute, only on demand.
- Preserves nutrition and taste that packaged atta loses.

Omnichannel Convenience

- Order via app, website, whatsapp, or pick up in-store.
- Delivered to your doorstep within 90 minutes.

Customization & Control

- Customers choose grain combinations and texture.
- Flexibility that packaged brands cannot provide.

Quality Assurance & Affordability

- Every order milled in hygienic, standardized conditions - avoiding the inconsistency of local mills.
- Direct-to-consumer model cuts out middlemen, ensuring better pricing and margin control.
- A no-questions-asked refund policy further builds trust.

Transparency & Trust

- Experiential stores let customers watch the milling process live.
- Ensures complete transparency, cleanliness, and confidence in every product.

EXISTING UNORGANIZED LOCAL MILLS

ANMASA'S EXPERIENTIAL STORES

50 rpm

Slow stone milling

90 min

Doorstep delivery

73

Net Promoter Score

FOUNDERS

Yatish Talvadia (Founder & CEO; co-founder, Milkbasket) · Shailendra Upadhyay (Co-founder & COO)



anmasa.com



yatish@anmasa.com

ILF AGRITECH CLASSIFICATION **C10.03** Direct-to-Consumer Brands

After the Farm › Retail, eGrocery & Foodservice



Nutrisum

Navi Mumbai, Maharashtra

Whole-grain, no-added-sugar, high-fibre snacks for people living with diabetes and prediabetes.

THE CHALLENGE

India has 101 million people with diabetes and 136 million with prediabetes, yet snack brands offer them few credible, nutritionally complete choices.

SOLUTION & TECHNOLOGY

Nutrisum rusks, cookies and toasty bites are 100% whole grain with no maida and no added sugar, giving 3–4% total sugar and 12–14% dietary fibre against 21–25% sugar in legacy rusks. A three-phase roadmap moves from 'good for you' to clinically backed low-GI products.

ACHIEVEMENTS & VALIDATION

- Own production facility at Mahape, Navi Mumbai; FSSC 22000 certification in process
- Nine SKUs across rusks, cookies and toasty bites, available on Zepto and Swiggy Instamart
- Formulation support from Thinking Forks and French flavour house Mane
- Founders bring 40+ years across J&J, Epigamia and Welspun

Current Product Portfolio



0%

Added sugar

12–14%

Dietary fibre

9

SKUs in market

FOUNDERS

Pankaj Dargad (CEO) · Mukesh Savlani (COO; HBS) · Vandana Dargad (CPO)



nutrisum.in



pankaj.dargad@nutrisum.in

ILF AGRITECH CLASSIFICATION C08.06 Health, Nutrition & Personalisation

After the Farm › Innovative Food & Alternative Proteins

Partner with our startups

Indigram Labs Foundation welcomes corporates, research institutions, government agencies, FPO networks, investors and ecosystem partners interested in collaborating with the incubatees through pilots, technology validation, procurement, market access and investment.



coo@indigramlabs.org · www.indigramlabs.org

Kanaj™ Hypobaric Modified Atmosphere, Post harvest storage barrel for dry & wet feedstocks

Ready for further validation of multiple commodities



Salient features

- 100% Pest Resistant
- LEAK PROOF SEAL
- Modified Atmosphere
- Temperature protect
- Storage Period
- Gas Membrane
- Food Grade HDPE Barrel, Stackable, Easy to transport
- 100% Air replacement, internal atm. pressure held at 0.5 to 1 bar
- Combinations of O₂, N₂, CO₂ held at high Pressure, 0 leak for weeks+
- Agro shield – thermal insulation of up to 10 degrees, UV blocked
- 2 months to 1 year depending on commodity
- Selectively permeable membrane for excess CO₂ escape in perishables

0 Oxygen (100% Anaerobic) storage of wet feedstocks for several months with 0 fungus, mould & aflatoxin*

© Hydrogram 2023



munico

Our Product Portfolio



Gutzy/Millet+ Probiotic Drink

Traditional Candies & Papads

Millet based food supplements