



उत्थानम् 5.0

(सुनहरे भविष्य हेतु अभिनव सोच)

UTTHANAM 5.0

(Innovative ideas for a better future)

Compendium of Jawahar R-ABI Agri-Startups



JAWAHAR R-ABI
(JAWAHAR RKVY-RAFTAAR AGRI-BUSINESS INCUBATOR),
Institute of Agri-Business Management
Jawaharlal Nehru Krishi Vishwa Vidyalya, Jabalpur – 482004, Madhya Pradesh



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Foreword



Utthanam 5.0 is the 5th edition of the compendium of Agri-Startup of Cohort 5.0 promoted by under Jawahar R-ABI, in Institute of Agri-Business Management (IABM). This is an important Institution of Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur. The Institute nurtures youth in Business through its two-year MBA (ABM) degree programme and also promotes Agri-Startups among rural youth and farmers. Promotion of Agri-Startups is with the financial assistance of Ministry of Agriculture & Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare, Government of India. Funded by Rashtriya Krishi Vikas Yojana-Remunerative Approaches for Agri and Allied Sectors Rejuvenation (RKVY-RAFTAAR) programme.

A blue ink signature of Prof. P. K. Mishra, written in a cursive style.

Prof. P. K. Mishra
Hon'ble Vice-Chancellor

Foreword

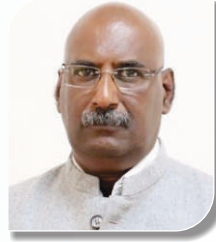


Translation of research into business models is highlighted in Utthanam -5.0. The unlimited opportunities and thought process from simple problems are essence of this documentation.

A handwritten signature in blue ink, appearing to read 'G. K. Koutu', written in a cursive style.

Dr. G. K. Koutu
Director Research Services

Foreword



Agriculture impacts the rural economy, which have always been fragile. Farmers are basically producers. Markets and business play around them. J-RABI has targeted this area to strengthen through the promotion of Agri-Startups. Utthanam -5.0 reflects part of this effort made.

A handwritten signature in blue ink, appearing to read 'Moni Thomas', written in a cursive style.

Dr. Moni Thomas
Director IABM & CEO,
Jawahar R-ABI

About the JAWAHAR-R-ABI

J-RABI is a sub-project under Rashtriya Krishi Vikas Yojana (RKVY) Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RAFTAAR), under Ministry of Agriculture & Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare, Government of India. The Innovation and Agri-Entrepreneurship Cell of RKVY-RAFTAAR promotes Agri-Business Incubator (R-ABI). In Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, it promoted as Jawahar R-ABI by Institute of Agri-Business Management (IABM). “PUSA KRISHI” in Indian Agricultural Research Institute, New Delhi is the Knowledge Partner (KP) of Jawahar R-ABI.

Vision: Creating an ecosystem of Agri-Innovators for agricultural development.

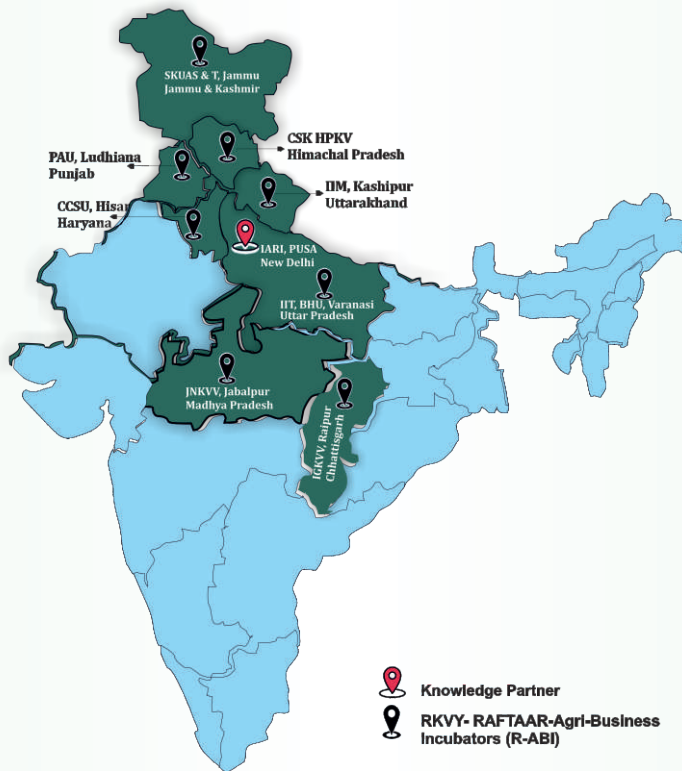
Mission

- ❖ Nurture agri-preneurs for Agri-Business development
- ❖ Fabricate an ecosystem for Agri-Incubation services
- ❖ Enhance the competitiveness of the Agri-Startups
- ❖ Create gainful employment opportunities for rural youths

Objectives of Jawahar R-ABI

1. To achieve “lab to land” by dissemination of new technology /varieties to farmers through promoting a culture of Agri-Startups
2. To promote innovation, entrepreneurship and business creation in agriculture and allied sector by skill development, capacity building and technology scale-up
3. To create employment opportunities for youth in agriculture in the rural vicinity
4. To promote an integrated approach for technology acquisition, R&D, commercial technology transfer and knowledge dissemination
5. To facilitate evolution of Agri-Startup ecosystem by the support for cost-effective, value-added services including technical, legal, financial, intellectual property, and regulatory compliance-related services
6. To build a vibrant Agri-Startup ecosystem, by establishing a network between academia, financial institutions, industries and other related institutions; capacity building of existing Agri-incubators

PUSA KRISHHI (Knowledge Partner) and its Agri-Business Incubators



J-RABI Programmes (FY 2023-24)

PRERNA (Pre-seed stage Funding)



Key components



One-month AOP



Mentorship by experts



Grant-in-aid upto 05 lakhs

Pre-seed stage funding Programme (Idea to Prototype)

- ❖ Agri-Startups with 'Proof of concept' and 'promising ideas' is facilitated with access to research facilities, technical experts, patent filing and extensive mentoring support, to develop a feasible and scalable product prototype
- ❖ One-month Comprehensive Agripreneurship Orientation Programme introduces the Agri-Startups to a window of opportunities & possibilities
- ❖ Agri-Startups selected are linked to other successful Startups
- ❖ The selected Agri-Startups of this phase present their concept, products before the Expert Committee
- ❖ On approval, the Agri-Startups earns a Grant-in-aid up to Rs. five lakhs.

SAAKAR (Seed stage Funding)



Key components



One-month AOP



Long-term support of Business Mentorship, Market linkage, etc.



Mentorship by experts



Grant-in-aid upto 05 lakhs

Seed Stage Programme (MVP to Commercialization)

- ❖ Agri-Startups with Minimum Viable Product (MVP) will be mentored to commercially launch and market their products/services.
- ❖ Assist them in validating their products/services
- ❖ Marketing & mentoring support by Domain experts
- ❖ Two months Comprehensive Incubation programme
- ❖ Mentorship in Technical, Business, Marketing and Networking, Investors & Market Linkages
- ❖ Grant-in-aid up to ₹ twenty-five lakhs



FOCUS AREAS



Organic Farming



Precision Farming



Agricultural Supply Chain



Waste to Wealth



Animal Husbandry, Dairying



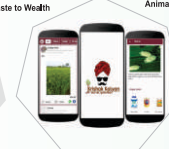
Agricultural Tools and Technologies



Post-Harvest & Food Technology



Food Processing



IoT, ICT and AI in Agriculture



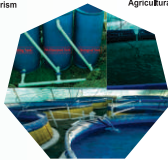
Agro-tourism



Agricultural Fintech



Medicinal Mushrooms



Fish Production



Agri Clinics & Farm Health Services



Farm Mechanization

Potential Agri-Startups Cohort- 5.0 of (FY 2023-24)

SAAKAR



Mr. Ahshan Ali Khan



Mr. Dattatry Nimbalkar



Mr. Ramsharan Tiwari



Mr. Rajendra K. Vishwakarma



Mr. Shivam Vishwakarma



Mr. Sachin P. Malgunde



Mr. Dilip Patel



Ms. Shruti Wankhade



Mr. Ramakant B. Yadav



Mr. Aubrey Maurice King-Lee



Mr. Somraj Bhujang Patil



Mr. Brijesh Thakur



Mr. Rupesh K. Choubey



Mr. Ashok Rediwal



Ms. Dharamrao Agraja Nitin



Mr. Rajesh Thoke

PRERNA



Ms. Ruchi Bisen



Mr. Ashish Meshram



Mr. Dharmendra K. Vishwakarma



Ms. Kusum Masram



Ms. Reena Kushwaha



Ms. Anita Kumari



Mr. Parshu Chakrabarti



Mr. Indrajeet Singh Rajpoot



Mr. Shivam Haldkar



Ms. Madhulata Kumari



Ms. Ambika Thakur



Mr. Ashutosh Mehra



Mr. Raghvendra Dwivedi



Mr. Satyajet Singh



Ms. Afsana Khan



Mr. Sudheer Mishra



Mr. Ramchandra Rajak



Mr. Balchandra Kushwaha



Mr. Swadesh Choudhary



Mr. Arpit Agrawal



Mr. Abhishek Vishwakarma



Ms. Smita Dubey



Mr. Sharad Verma

Profile

Agri-Startups (5.0 Cohort)

SAAKAR

SEED STAGE PROGRAMME
(MVP TO COMMERCIALIZATION)



Organohealth Nutrition Pvt. Ltd.

“शुद्धता स्वास्थ्यानुसाध”



Mr. Ahsan Ali Khan

Qualification : ITI
Company : Organohealth Nutrition Private Limited
Establishment Year : 2023
Location : Morena, Madhya Pradesh
Email id : khanahsanali4@gmail.com
Contact detail : +91 9425795786



- Name of Innovation** : Extraction of oil and value addition of guggul gum.
- Focus Area** : Post Harvest Food Technology, Processing & Value Addition
- Technology Description** : India's best guggul is found in Chambal. Proper collection and cold storage of guggul to avoid loss of bio-active compound. It is thin extracted for costly oil. It is a low volume high value product.



Newkisan Agro Services

"All In One (Seed and Vegetable Seedlings) Motor-based Tractor Operated Punch Planter"



Mr. Dattatry Nimbalkar

Qualification : Ph.D Agri. Engg.
Company : Farmtechnique Engineers Consulting Pvt. Ltd.
Establishment Year : 2023
Location : Ahmednagar, Maharashtra
Email id : dnimbalkar7@gmail.com
Contact detail : +91 9425795786



- Name of Innovation** : All in one (Seed and Vegetable seedlings) motor-based tractor operated punch planter developed for sowing and transplantation
- Focus Area** : Agriculture Equipment / Farm Machinery
- Technology Description** : Farmtechnique Engineers Consulting Pvt. Ltd. Ahmednagar, Maharashtra, developed a pneumatic meter-based all-in-one automated machine for sowing and planting of vegetable seedlings. It ensures timely sowing, reduces dependency on labour and saves costs. It's easy picking and dropping mechanism minimizes operational expenses. It is affordable and easy to operate with high accuracy and efficiency. It has adjustments for row-to-row and plant-to-plant spacing, a singulating seeds and vegetable seedlings are it's specialized features.



Aqua Agro Tech



Mr. Ramsharan Tiwari

Qualification : High School
Company : Gangeo Agro Farmer Producer Company Limited
Establishment Year : 2021
Location : Rewa, Madhya Pradesh
Email id : ramsharant39@gmail.com
Contact detail : +91 8839422675



- Name of Innovation** : Aqua Agro Tech - Smart Agricultural Water Management System
- Focus area** : Agriculture Equipment / Farm Machinery
- Technology Description** : The tractor-drawn multi-utility implement is a bund maker and also makes water channels in difficult fields in short period. The implement is especially designed for small and marginal vegetable growers.



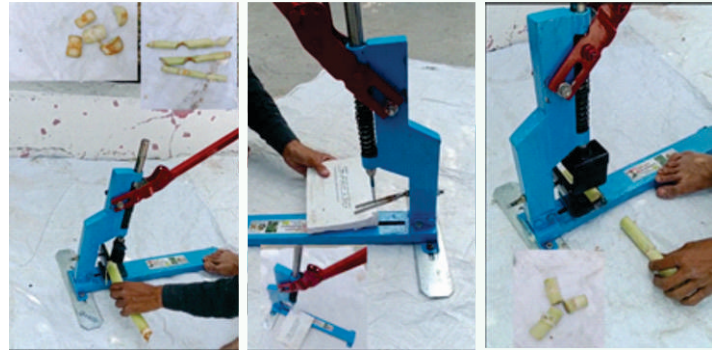
Sugarcane Bud Chipper



**Mr. Rajendra K.
Vishwakarma**

Qualification : High School
Company : Bagicha Agro Tech Pvt. Ltd.
Establishment Year : 2023-24
Location : Narsinghpur, Madhya Pradesh
Email id : roshanmekh@gmail.com
Contact detail : +91 9300724167/ 8719916697

- Name Of Innovation** : Innovative Sugarcane Bud Chipper Machine
- Focus Area** : Farm machinery
- Technology Description** : It is a simple hand-operated machine chipper the buds form the Sugarcane. The chipped buds result in improved germination upto 90 percent reducing the transplant and seed cost by 95 percent.



Vishwakarma Farm Machinery Pvt Limited



Mr. Shivam Vishwakarma

Qualification : High School
Company : Vishwakarma Agriculture Innovation Partnership
Establishment Year : 2023
Location : Narsinghpur, Madhya Pradesh
Email id : shivamvishwakarma011@gmail.com
Contact detail : +91-7089687098, +91-9074780004

Name of Innovation : Submersible motor pump lifting machine

Focus area : Agricultural Machinery

Technology Description : Deep borewells are major source of irrigation in Central India. Submersible pumps in these borewells often need to be lifted for repair or replacement. This is a difficult and time-consuming operation. Vishwakarma Agriculture Innovation Partnership developed a pump lifting machine with 3 versions (manual, tractor and power operated) to lift the pump from 300 ft to 900 ft deep borewell easily.



Multi-Purpose Organic Fertilizer Making Machine



Mr. Sachin P. Malgunde

Qualification : Diploma in Instrumentation Engineering
Company : Farmware Industries India Pvt. Ltd.
Establishment Year : 2022
Location : Pune, Maharashtra
Email id : sales@farmsware.com
Contact detail : +91 7709013221



- Name of Innovation** : Multipurpose Organic fertilizer pellet-making machines.
- Focus area** : Farm machinery
- Technology Description** : Agri-waste management is a major issue in Agriculture sector. The Agri-waste is converted into manure efficiently by the Farmware Industries India Pvt. Ltd., The power operated machine directly converts all the Agri-wastes from fields, poultry and dairy to manure in pellet form. The innovation is helpful in reducing the current pollution and as well as the basic issues of organic farming.



Suraj Agro

“Agriculture Machinery, Manufacturing & Supplier”



Mr. Dilip Patel

Qualification : B.E. (Mech), M.Tech (Industrial Engg.)

Company : Suraj Agro Partnership

Establishment Year : 2020

Location : Sagar, Madhya Pradesh

Email id : bijorameragao@gmail.com

Contact detail : 9893917923, 6265567116



Name of Innovation : Garlic Planter (Bucket Elevator Base Chain Spoon Single Seed Picking)

Focus Area : Farm mechanisation

Technology Description : Garlic is a lucrative cash crop, but maintaining uniform spacing during planting is costly and labour-intensive. Suraj Agro Partnership has developed a garlic planter capable of adjusting spacing at 7, 8, and 9 inches apart. This innovative planter has eight different models available on the market. It uses a one-inch bucket system set at 3-inch intervals along the chain to ensure consistent plant-to-plant spacing of 3 inches.



Soap Spell

"Artisan bodycare"



Ms. Shruti Wankhade

Qualification : Diploma in Design
Company : Wan Cosmetics Lab LLP
Establishment Year : 2023
Location : Indore, Madhya Pradesh
Email id : soapsellco@gmail.com
Website : www.soapsell.com
Contact detail : 8103282787

Soap Spell
ARTISAN BODYCARE

Name of Innovation : Herbal and Natural Body Care products

Focus Area : Herbal Products

Technology Description : Soap Spell believes in 'Where health and excitement meet'! Each Soap Spell product is carefully crafted to nourish both the customer's body and the planet, with every item blending creativity and fun. The unique handmade products offer exceptional performance, delightful aroma and alternative shape. Made with skin-loving ingredients and ethical, sustainable practices, the company offers a range of artisanal body care products such as soaps, creams, scrubs, serums, oils and candles. Soap Spell is not just a product line - it's a movement! The company communicates with its consumers through social media and interactive workshops for awareness of learn the magical art of formulation and be a part of our vibrant, health-conscious community.



GoGreen



Mr. Ramakant B. Yadav

Qualification : Diploma in Instrumentation Engineering
Company : Imperial Agro Pvt. Ltd.
Establishment Year : 2022
Location : Satara, Maharashtra
Email id : gogreeninnovation44@gmail.com
Contact detail : +91 7588504977



Name of Innovation : Fruit shelf-life extender

Focus area : Post-harvest & Food Processing

Technology Description : Post-harvest losses of fruits was established to arround 19.34 percent in India during 2023. These losses occur at all stages across the supply chain, from post-harvest to the retail distribution. Gogreen Pvt. Ltd. has come up a nutritional product designed to absorb ethylene and moisture released by fruits. This innovation effectively delays ripening throughout during transit and package, thereby extending shelf life without compromising the fruit's colour and taste.



Kinglee Xperience



Mr. Aubrey Maurice King-Lee

Qualification : MBA Finance
Company : Kinglee Xperience Private Limited
Establishment Year : 2018
Location : Pandhana, MP
Email id : kingleeexperience@gmail.com
Website : kingleeexperience.com
Contact detail : +91 9008754219



Name of innovation : Cold process, Handmade, Gourmet, Artisan milk based bars

Focus area : Herbal Products

Technology Description : Kinglee Xperience aims to create, develop, grow employment and income generating activities in rural India by producing quality and niche handmade products through locally sourced ingredients. Locally available raw products are blend to create unique innovative products the 'BUY FROM VILLAGE' movement and solve local socio-economic issues consistently, continually and on a constantly monitored basis. The company's formula is 1+1=11



Natural Dairy Farm Pvt. Ltd

“The Next White Revolution”

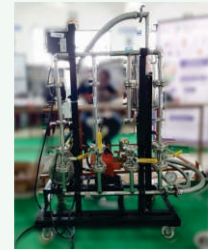


Mr. Somraj Bhujang Patil

Qualification : Higher Secondary
Company : Natural Dairy Farms Pvt LTD
Establishment Year : 2018
Location : Sangli, Maharashtra
Email id : somrajpatil2405@gmail.com
Contact detail : +91-9359392463



- Name of Innovation** : Preservation of milk using Cost-effective Non-Thermal Technique
- Focus Area** : Post Harvest Food Technology, Processing & Value Addition
- Technology Description** : India is the largest producer of milk in the world. However, the majority of the milk is from unorganized sector small dairy owners. Milk from villages to town are bought for sale, where losses is higher. Natural Dairy Farm Pvt has developed a groundbreaking alternative using cavitation technology instead of current practice pasteurization. This revolutionary method disinfects raw milk by reducing CFU counts, effectively preventing microbial deterioration. Hydrodynamic cavitation. The process of vaporization, bubble generation, and bubble implosion due to pressure changes in a moving liquid, produces shock waves that kill bacteria at their nucleus. This method dramatically reduces the CFU count from 5.6×10^6 to 6.1×10^2 .



Hydrodynamic cavitation is highly cost-effective for commercialization, reducing energy consumption and preserving nutrients. The company's goal is to deliver fresh, daily milk to everyone cost-effectively and healthily using this innovative technology.

Advance Biofloc System

“Fishing Money”



Mr. Brijesh Thakur

Qualification : Diploma in Mechanical Engineering
Company : Thakur Biofloc Aqua Solutions Partnership Firm
Location : Mandla, Madhya Pradesh
Email id : thakurbioflocaquaculture@gmail.com
Contact detail : 9407344386



- Name of innovation** : Water recirculation cum fountain system
- Focus area** : Fisheries
- Technology Description** : Biofloc is gaining popularity due to lesser space requirements and the mobilization of resources. But the accumulation of sludge and ammonia gas affect the production and productivity of fishes. The company has developed innovative and advanced Biofloc System to remove the sludge and ammonia generated in the system.



Gokul Gramodyog

“Unified Solution of nutrient deficiency through vitamin/protein rich Mushrooms”



Mr. Rupesh Kumar Choubey

Qualification : M.Sc. (Biotech)
Company : GOKUL GRAMODYOG Partnership Firm
Establishment Year : 2020
Location : Rajnandgaon, Chhattisgarh
Email Id : gokulgramodyog@gmail.com, rupesh.choubey323@gmail.com
Contact detail : +91- 8787292897, +91- 8090730681, +91- 9752006979



Name of Innovation : Production of coloured mushrooms

Focus Area : Waste to Wealth

Technology Description : Chhattisgarh- the rice bowl of Central India and is the predominant tribal state of India. Rice straw management is an issue. Similarly malnourishment among small & marginal is another socio-economical problem. Gokul Gramodyog is promoting paddy straw mushroom production as well as coloured edible mushroom of different types. They are involving local farm women. The company growing coloured mushroom rich in Riboflavin, Lovastatin & Lentinan.



Auto Recycle High-Pressure Biogas and Fertilizer Plant

"Eco-friendly Auto Recycle & High-Pressure biogas & Fertilizer Plant"



Mr. Ashok Rediwal

Qualification : BE (Civil Engg.)
Company : Registration in process
Establishment year : 2022-2023
Location : Ramganj mandi, Kota Rajasthan
Email id : aashokrediwal888@gmail.com
Contact detail : +91-8619672259



Name of Innovation : Eco-friendly high-pressure portable plant for auto recycling of dung to produce liquid fertilizer and biogas.

Focus area : Waste to Wealth

Technology Description : The existing biogas plants are fixed and built underground. This type of plant also requires comparatively more cow dung. The Agri-Startup has developed portable PVC-based auto high-pressure biogas plant with a mechanism of automatic recycling for the liquid slurry of 5 kg cow dung, which producing 1 kg of biogas. The system is clean with limited, no foul smell in the vicinity.



MA Enterprises

"Value-added product from waste chicken feathers"



Ms. Dharamrao Agraja Nitin

Qualification : M.Sc. (Microbiology)
Company : Agro Based supporting Aquaculture Pvt. Ltd.
Establishment Year : 2022-23
Location : Pune, Maharashtra
Email id : achamagraja@gmail.com
Contact detail : +91 8830052806/7507774636



- Name of Innovation** : Fish feed from poultry feather waste
- Focus Area** : Agriculture allied (Aquaculture)
- Technology Description** : Feathers in Poultry is a waste. Slow decomposition of feathers is also a waste management issue among poultry and farmers. MA Enterprises have developed a technology to convert feather of the poultry birds' in to high quality protein feed for fish in commercial farming.



Ananya Bio Poultry Fertilizer

“Bio-enriched poultry manure-base fertilizer with liquid and pellet”




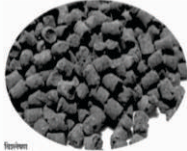
Mr. Rajesh Thoke

Qualification : MBA Finance, PhD-App
Company : Ananya Bio Poultry Fertilizer Partnership Firm
Establishment Year : 2022
Location : Ahmednagar, Maharashtra
Email id : ananayabiofertilizer2022@gmail.com
Website : www.ananyabiofertilizer.com
Contact detail : +91 976500742



- Name of Innovation** : Bio Poultry Fertilizer
- Focus Area** : Poultry
- Technology Description** : Faeces, feed waste and feather accumulate in the deep litter poultry sheds. The decomposing waste spread foul smell in the vicinity. Ananya Bio offers an innovative solution by converting poultry waste into bio-enriched manure in both pellet and liquid forms. This process effectively addresses waste management issues and products organic farming.

दानेदार कोंबडी खत



सिद्धिमान
संश्लेषण : 100%
P₂O₅ : 6.0-7.5
N : 3.6% ; P : 2.8% ; K : 2.3%

Application Rate :

घास/कचारा वा हल	सुखे	कृषिक: कालिण मिश्रण/मसाली
150gr/m ²	75gr/m ²	35 to 45% total mixer
सुखे वा पाडी	उपले	१ इंच/२ पाडी
200-300gr/m ²	2kg/m ²	600 to 700 Kg अंजारे
घास, पावण वा कडीका	कुडीतील कचाराशी	
100gr/m ²	75gr for 6 inch pot	



PREERNA 5.0

**PRE-SEED STAGE PROGRAMME
(IDEA TO PRODUCT PROTOTYPE)**



Herbal Mushroom Elixir

“Remedy of healthy life”



Mr. Sudheer Mishra

Qualification : B.Sc. (Industrial Chemistry), PGDCA

Company : Mushroom Elixir Partnership Firm

Establishment Year : 2022

Location : Rajnandgaon, Chhattisgarh

Email id : ajsudhir.sm@gmail.com

Contact detail : +919752006979



- Name of Innovation** : Mushroom elixirs
- Focus Area** : Waste into Wealth
- Technology Description** : Mushroom elixirs have stood the test of time for their health benefits. The Agri-Startup prepares elixirs by extracting the bioactive compounds from varied types of mushrooms, including the popular reishi mushrooms. The bioactive compounds from mushroom elixir are known to enhance the immune system, reduce inflammation, and improve cognitive function. Mushroom elixirs can also be a daily dietary items in teas, smoothies, or even as a stand alone drink.



Raj Sweetcorn Café



Mr. Ramchandra Rajak

Qualification : B.Com, B.Ed., DCA
Company : Registration in process`
Establishment Year : 2022
Location : Katni, Madhya Pradesh
Email id : rkumar50497@gmail.com
Contact detail : +91 9098881933

- Name of Innovation** : Corn silk tea from corn husk waste
- Focus area** : Waste to wealth
- Technology Description** : The acreage of corn is increasing in the eastern MP. The silk threads beneath the corn cob sheath is thrown away after its peeling for the corn. The corn silk is loaded with antioxidants. The shade dried and powdered cornsilk thread is added in boiling water to make tea.



Eco Puran Tech

"Power plus universal renewable energy and advanced natural land leveling."



Mr. Balchandra Kushwaha

Qualification : Higher Secondary
Company : Registration in process
Establishment Year : 2023
Location : Tikamgarh, Madhya Pradesh
Email id : ecopurantech@gmail.com
contact detail : +91 - 9685815601, 9770662528



- Name of innovation** : *Charkha Model*- Associate PURAN plant running on wind water power to generate electricity
- Focus area** : Renewable Energy/Natural Resource Management
- Technology Description** : Both water and power is scarce in Bundelkhand region. The Agri-Startup has developed a working model. The technology involves the axis of a group of turbines being rotated by the force of water using a Pelton wheel. In this system, water jets strike the Pelton wheel's buckets, converting the water's kinetic energy into mechanical energy. This rotates the axis of the turbines to generate electricity. The Pelton wheel is specifically designed for high-head, low-flow water sources, making it highly efficient in capturing and utilizing water power for energy production.



Extra Tiller Roller

"Value-added product from waste chicken feathers"



Mr. Swadesh Choudhary

Qualification : B.Sc.

Company : Registration in process

Establishment Year : 2023

Location : Betul, Madhya Pradesh

Email id : swadesh.choudhary2464@gmail.com

contact detail : +91-9329473710

- Name of Innovation** : Extra Tiller Roller
- Focus Area** : Agriculture machinery
- Technology Description** : High seed rate of wheat increases the initial cost of production. Dense plants and less tiller results in low yield. The Agri-Startup has developed a tractor-drawn Extra Tiller Roller. The roller when rolled over the tiller of wheat plants. It breaks the stem initiating excess tillering of the plant. More tillers leads to more yield.



Mohak Jaggery

"From Farm to Sweet Table: Nourishing Lives with Our Premium Jaggery"



Mrs. Ruchi Bisen

Qualification : B.Com. M.A.

Company : Mohak Jaggery Partnership Firm

Establishment Year : 2023-24 (in-progres

Location : Tumadi, Balaghat, Madhya Pradesh

Email id : hemlatabisen03@gmail.com

Website : www.mohakjaggery.com

Contact detail : 91-9617112758, 91-9425448458



Name of Innovation : InfuSion Tech: Infusing Innovation into the Heart of Jaggery Excellence

Focus Area : Post Harvest Food Technology, Processing & Value Addition.

Technology Description : The Jaggery produced attains a golden colour. The product size ranges from 25 g to 10 kg. The Agri-Startup is manufacturing high-quality jaggery with longer self-life from the Sugarcane variety (Co 86032) grown in the Agri-Startups field. All processes in the unit is done by women. The juice is processed and stored in containers according to its grade, after double settler method followed by temperature managed by condition.



Desi Jugaad Technical Incubator



Mr. Ashish Meshram

Qualification : Post Graduation
Company : Registration in process
Establishment Year : 2021
Location : Balaghat, Madhya Pradesh
Email id : meshramashish942@gmail.com
Contact detail : +91 8120728425

- Name of Innovation** : Low-cost egg-hatching machine
- Focus area** : Agricultural machinery
- Technology Description** : Balaghat is one of the prominent tribal districts of MP. Backyard poultry is common among tribal communities. Hatching occurs over 20-21 days. The Agri-Startup developed a portable egg incubator using old malfunctioned refrigerator. The unit is fitted with power supply, temperature controller, heater (bulb), power supplier, and hygrometer, resulting in the successful hatching of eggs within 24 hours.



All-in-one Sugarcane Cultivator



Mr. Dharmendra K. Vishwakarma

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- Name of Innovation** : Tractor-operated Sugarcane Cultivator
- Focus Area** : Farm machinery
- Technology Description** : Narsinghpur district is a major sugarcane-growing district. Stubble management is a district-wide problem. The Agri-Startup has developed a tractor-drawn implement. The all-in-one sugarcane cultivator machine seamlessly converts stubble into organic manure by integrating it fully into the soil it thus preserves soil structure and fertility while minimizing stubble waste. This implement help to reduces time and fuel costs in sugarcane cultivation.



Fortified millet-based laddu



Mrs. Kusum Masram

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Name of Innovation : Food processing for fortification of millet-based laddu.

Focus Area : Food Processing

Technology Description : Mandla is a tribal district of MP. Malnourishment and socio-economically disadvantaged groups predominates. The Agri-Startup has developed a minor millet value-added product to address the wide-scale low-cost nutritionally rich edible products. The Agri-Startup has come up with Kodo-Kutki-based laddu as a food supplement for malnourished socio-economically group in the district.



Agro Base (Auto water Pump)

“Valve Kholo Pani Lo”



Mrs. Anita Kumari

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Name of Innovation : Cosmic Energy Auto Water Pump (Open Valve Take Water)

Focus Area : Agricultural Machinery

Technology Description : Power cut is a major issue in rural India. Drawing water from deep borewell is another problem associated with power supply. The Agri-Startup has developed an Auto Water Pump. The pump works on the auto vacuum developed in the system. Once the vacuum is created, the pump draws water from a deep borewell uninterruptedly with minimum energy. The pump can be used in open wells and ponds for lifting water.



Mud -Refrigerator



Mr. Parshu Chakrabarti

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Name of Innovation : Mud refrigerator.
Focus Area : Waste to Wealth
Technology Description : Decay and loss of scarce food in the distantly located rural household is a common. The Agri-Startup has developed a portable mud refrigerator with shelves to store milk, fruits, vegetables, etc. The product needs no power but keeps the stored items cool.



RKISRAAM Agro Pvt.Ltd.



Mr. Indrajeet Singh Rajpoot

Qualification : Middle School
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Name of Innovation : Manually operated planting machine

Focus Area : Agricultural Machinery

Technology Description : Transplantation of vegetable seedlings is highly labour intensive and time-consuming. Almost all the backyards in the rural household grow vegetables for household consumption and often for sale. The Rkiswaam Agro Pvt. Ltd. has designed and developed a manually operated low-cost planting machine. The machine transplant seedlings in one acre of land in an hour. The machine replaces six labour required for the job.



AgroAdwik LLP

"Agriculture resource sharing and farming solutions"



Mr. Shivam Haldkar

Qualification : BE (Civil Engg.)
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- Name of innovation** : Agriculture resource sharing and farming solutions.
- Focus Area** : Farmers, Transport vehicle (Truck, Tractor) owner, Agricultural Implements provider, Commodity broker.

Technology Description : The Agri-Startup is developing an Online platform that allows farmers to connect and share resources. This platform will help to find agricultural equipment/ machinery, pump on rent, so users can use them without purchasing. It will help users to do operations with less amount and minimal maintenance cost. At the same time, the owner of that equipment can get extra income for that agricultural implement.



Kechuaa Organics Pvt. Ltd

“Grow food from inch to acre”



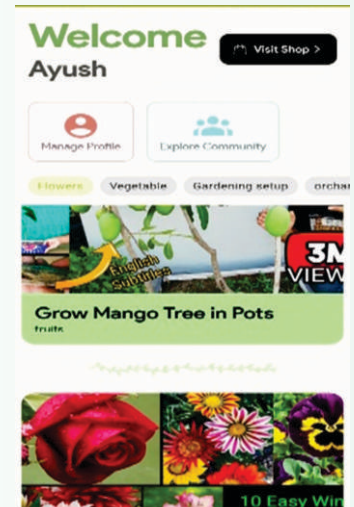
Mr. Abhishek Vishwakarma

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Mera maali

- Name of Innovation** : Mera Maali Mobile app
- Focus Area** : Farming/Gardening
- Technology Description** : The concept of Kitchen gardens and terrace gardens is getting wider acceptance in the Urban sector. However, access to inputs and technical advice is still a constraint. The Agri-Startup has come forward with the Mobile App based solution for his clients.



Samradha Samadhan Agro Pvt. Ltd.

“Natural Nutrition”



Ms. Smita Dubey

Qualification : MBA
Company : Samradha Samadhan Agro Pvt. Ltd.
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- Name of the Innovation** : Flavoured Goat Milk
- Focus Area** : Food processing
- Technology Description** : Tribal communities in Madhya Pradesh face socio-economic disadvantages, with cash flow posing a major constraint on household finances. Women in this community raise goats for sale as it serves them as 'Anytime money'. However, in the process, they ignore goat milk for additional revenue. There are valid reasons for its Low quantity and access to the market are the two hurdles. Samradha Samadhan Agro Pvt. Ltd. company based in Damoh, Madhya Pradesh purchases goat milk from goat-rearing women on a pre-decided price. It is pasteurized, flavoured and packaged in 200 ml for sale. The rough taste of goat milk is masked with chocolate, cardamom and vanilla flavours for wide acceptability.



Swastik Bio Gas and Fertilizers



Mr. Sharad Verma

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- Name of Innovation** : Biogas Plant refill for tractor and water pumps
- Focus Area** : Waste to wealth
- Technology Description** : Diesel costs eat into farmers' profits; Agri-Startups offer a solution by replacing diesel with affordable biogas, a blend of methane and other gases, ideal for powering agricultural equipment like tractors, making it economically feasible for everyone.



UNICO FOODS

"Unleashing a Nutritional Revolution : Transforming Packaged Food for a Vibrant Future"



Mr. Arpit Agrawal

Qualification : B. Com
Company : Unico Foods Pvt. Ltd.
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- Name of Innovation** : Millet-based packaged Food
- Focus Area** : Food processing and value addition
- Technology Description** : In today's fast-paced world, convenience often takes precedence over nutrition. It is leading to a surge in packaged food products that compromise health. UNICO FOODS is committed to crafting game-changing packaged food solutions prioritizing both convenience and nourishment. Nutrient-dense millets into wholesome "Ready-to-Eat/Ready-to-Cook" products. With UNICO FOODS, one can enjoy a seamless way to integrate nutritious eating habits into the current busy lifestyle. The Agri-Startup products are designed to empower you to make healthy choices without compromising or convenience.



Hari Agrologitech



Ms. Ambika Thakur

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Establishment Year : 2023
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Contact detail : +91-7869950545

- Name of Innovation** : Ber Vinegar
- Focus Area** : Post Harvest Food Technology, Processing & Value Addition
- Technology Description** : Local Ber plants are found in almost all backyard and field bunds of Bundelkhand. Unlike sweetness of fruits from improved Ber varieties, Ber fruit from local plants in Bundelkhand are sour but organic. These sour fruits are a waste. The Agri-Startup has come up with a technique to prepare Vinegar from the Ber in Bundelkhand. These will help numerous in selling their unmarketable Ber to the Agri-Startup.



Production of Briquettes (white coal) by using Agricultural Waste



Mr. Ashutosh Mehra

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- Name of Innovation** : Briquettes (white coal)
- Focus area** : Waste to wealth
- Technology Description** : Sugarcane crush is piling up in Sugar factories of Narsinghpur district. The factory also uses these as a fuel, but have lesser efficiency. The Agri-Startups has come up with a solution of making briquettes from Sugarcane wastes. Creating briquettes is a dynamic journey from biomass acquisition to densification! Imagine a white coal machine turning biomass waste into charcoal through intense heat and pyrolysis, Crafting of eco-friendly briquettes rich in carbon goodness. Briquetting – the process of compaction of biomass into a product of higher density than the original raw material. Briquetting reduces the volume of biomass by 10 times.



Consumable Cutlery



Mr. Raghvendra Dwivedi

Qualification : B.Sc (Ag Hons.)
Company : Radhakripa Agro Pvt. Ltd.
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Name of Innovation : Eco-Friendly Plates and cups from Paddy straw

Focus Area : Waste to Wealth

Technology Description : Reducing the use of plates and bowls made of plastic and thermocol by replacing them with Eco-Friendly Consumable Cutlery made from paddy straws will reduce harm to human health and increase additional income by creating value products.



Alsi Lenin

"Best from Waste- Alsi Malmal"



Mr. Satyajeet Singh

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contact detail : +91-9425002847



Name of Innovation : Alsi Malmal
Focus Area : Waste to Wealth
Technology Description : Linseed is grown widely in the moisture stressed Bundelkhand region of MP as a remunerative rabi crop. This crop is transforming the area from mono to double cropped helping the farmers vast quantity of linseed stems after harvest of crop in the region is either used as fuel for household or in brick kiln with no returns to the farmers.

The Agri-Startup has developed a technique to extract fine quality fibres from the linseed stems. This is creating value from the waste both for the linseed farmers and teh Agri-Startup.



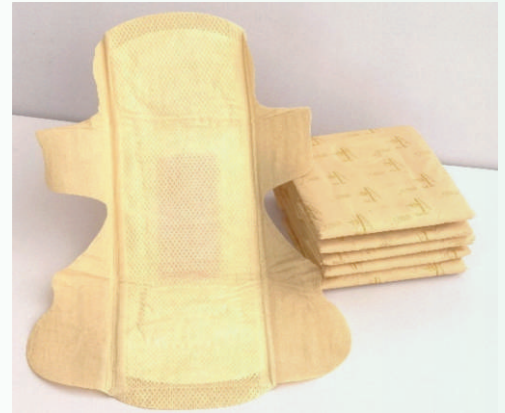
Bamboo Sanitary Pad



Ms. Afsana Khan

Qualification : High School
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Email id : rkhan42559@gmail.com
Contact detail : +919399639306

- Name of Innovation** : Bamboo Sanitary Pad
- Focus area** : Natural Resource Management
- Technology Description** : Rural sector hygiene management for menstruant girls and women is a major problem. Access to sanitary pads is a limitation. Women play an important role in agriculture and household management. The Agri-Startup has come up with a low cost natural sanitary pad developed from bamboo waste. Bamboo is abundantly grown in the forest, waste land and field bunds of Balaghat.



Proagro Partnership

"A well being nature."



Ms. Reena Kushwaha

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Proagro

A well being nature.....

- Name of Innovation** : Value Added Vermicompost Manure and Fortified Vermicompost
- Focus Area** : Waste to wealth
- Technology Description** : The Agri-Startup procures Agriculture wastes from local formers and converts them in to Vermicompost. The Vermicompost is then fortified with biofertilizers and rock phosphate. This enriched vermicompost is packed in different size and sold to farmers at competitive prices.



Rupika Food and Agriculture Pvt. Ltd.

“Taste with Health”



Mrs. Madhulata Kumari

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Name of Innovation : ITH Barnyard, Instant, Tasty and Healthy Barnyard

Focus Area : Value addition of millet

Technology Description : ITH Barnyard is a pure barnyard millet-based food product. It is an instant ready-to-cook food product and can be cooked within 5 minutes. The goodness of the barnyard millet is conserved in ITH Barnyard with indigenous taste with zero artificial food additive. The flakes of barnyard millet is garnished with almond and specific mushroom powder. This intensifies the taste and nutritional quality of the product.



Group Photo of Agri-Startups of Cohort 5.0





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Director IABM & CEO Jawahar R-ABI



Dr. Gyanendra Tiwari
Co-PI, Jawahar R-ABI



Dr. Parvez Rajan
Co-PI, Jawahar R-ABI



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Business Manager



Mrs. Laxmi Singh
Assistant Manager



Mr. Deepanshu Patel
Business Executive



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