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R-ABI R-ABI IGKV R-ABI IGKV R-ABI IGKV R-Agri Business Incubator

सत्यमेव जयते
Ministry Of Agriculture & Farmers Welfare
Government Of India

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A Compendium Of Agri-startups...



Credits

Patron
Dr. S.K. Patil, Hon'ble Vice Chancellor
Indira Gandhi Krishi Vishwavidyala, Raipur, Chhattisgarh

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Dr. S.K. Patil
Vice Chancellor



No: PA/VC/IGKV/188/2019/332
Date: 04.11.2019

Message

India has a rapidly growing population of 1.3 billion, and is predicted to surpass China as the most populated country in the world by 2024. By 2050, India's annual food grain production would need to grow to 333 million tonnes which is 278 million tonnes today. This indicates that there is a huge gap of technological advancement and fulfilment which seems possible only through innovations, technologies developed by entrepreneurs/startups across the value chain. At the same time, not only these innovations need to be growth worthy, it also has to be sustainable in the longer run. The world is witnessing a huge adoption from Investors' communities to support the Agtechstartups. In fact, according to AgFunder, a total funding over the five-year period between 2013 and 2017 globally reached $1.66 billion, which appears low compared to the $10 billion raised globally in 2017 alone. Till date, agri& food entrepreneurs/startup have been focusing on developing the solution in line with the increasing demands of India's growing population which is also in sync with Startup India Initiative launched by Hon'ble PM in 2016. Indira Gandhi KrishiVishwavidyalaya RKVY RAFTAAR Agribusiness Incubator (IGKV R-ABI), the first agribusiness incubator in the state of Chhattisgarh supported by Ministry of Agriculture & Farmers' welfare, Govt. of India has a mandate to support early stage agripreneurs across the region to take them to next level. I am happy to present the profiles of 43 Agri-startups incubated with IGKV R-ABI and wishing them a good luck for their future endeavours. I also congratulate entire IGKV fraternity, Head & PI-CEO, Dr. Hulas Pathak and IGKV R-ABI team in successfully launching the flagship ABHINAV & UDBHAV programs. I commend the efforts of Dr. Pathak and his team in consecrating out this very useful publication.

(S.K. Patil)

Prelude by The Director of Extension Services



IGKV

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PRELUDE BY THE DIRECTOR EXTENSION

India needs a revolution in quality productivity, profitability, and sustainability in agriculture to suffice the needs of growing population. Although in recent years, increased irrigation facilities, application of improved site-specific cultivation and management practices in Indian agriculture has supplied the food demands of human consumption but with the ever increasing population, food security still remains a big challenge.There is a gradual decreased trend in cultivated area, water resources and soil fertility; increased trend in environmental degradation through intensive cropping systems, rising salinity, resistance of harmful organisms to many pesticides and insecticides as well as degradation of quality irrigation water. Even after achieving self-sufficiency in food grains, the profession that represent an important part of our economy and provides livelihood to more than 60% of country's population, continues to face innumerable challenges. I believe, technological innovation and faster adoption can catapult Indian Agriculture to next level.

Indira Gandhi Krishi Vishwavidyalaya has taken a nice initiative by starting an agribusiness incubatorwith an aim to scout & nurture early stage agripreneurs by providing conducive environment for business growth through mentoring, technology support, access to investors' and corporates. In addition to this, IGKV with its access to the Krishi Vigyan Kendras, Research Institutions and other institutes will allow the entrepreneurs to leverage the network for business growth & expansion for their startups.

In this publication, an earnest attempt has been made to collate the data from various IGKV R-ABI Agripreneurs through a structured primary survey so as to capture the profile of the Agripreneurs. This publication provides a gist on 43 different Agri-Startups, representing 15 sub-sectors of agriculture & allied sectors from 7 different states of India. My best wishes to the agri-startups and congratulations to Dr. Hulas Pathak, head & PI-CEO, IGKV R-ABI and team for bringing out this compendium of the first batch of agripreneurs of IGKV R-ABI, Raipur, Chhattisgarh.

(S.C. Mukherjee)

Foreword by Head & PI- CEO, IGKV R-ABI

Dr. Hulas Pathak
PhD (Agril. Economics), MDP (IIM-A), MDP (IIM-L)
Head & Principal Investigator – Chief Executive Officer
RKVY-RAFTAAR Agri - Business Incubator (R-ABI)
INDIRA GANDHI KRISHI VISHWAVIDYALAYA
Raipur, Chhattisgarh INDIA



INDIRA GANDHI KRISHI VISHWAVIDYALAYA RKVY RAFTAAR Agribusiness Incubator (IGKV R-ABI) is the first & only agri-innovation hub and agribusiness incubator in the state of Chhattisgarh located in Raipur city, India. IGKV R-ABI has been supported by the Department of Agriculture Cooperation & Farmers Welfare (DAC & FW), Ministry of Agriculture & Farmers Welfare, Govt. of India under the revamped scheme Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RKVY-RAFTAAR).

The incubator has been initiated in March 2019 and got functional since June, 2019. The IGKV R-ABI has a mandate to promote agripreneurship and agribusiness by mentoring, providing business support services, access to financial support and encouraging the incubation ecosystem by nurturing early stage agripreneurs in agriculture and allied activities.IGKV R-ABI aims to help entrepreneurs ideate, incubate and accelerate their innovative early stage startups that are scalable to become competitive food and agri-business ventures through capacity building, mentoring, networking and advisory support. IGKV R-ABI has launched it's flagship program, ABHINAV (Agribusiness Orientation Program) for entrepreneurs contemplating on idea stage and UDBHAV (Agri Incubation Program) for entrepreneurs having working prototype and product in the market. The entrepreneurs were selected through rigorous process on a competitive basis and being incubated since Aug 21st, 2019 for 2 months (60 hrs of internship). Based on the startups' progress the selected agri-startups will be recommended for availing the grant-in-aid upto INR 5.0 Lakhs and INR 25.0 Lakhs based on the guidelines received from Department of Agriculture Cooperation & Farmers' Welfare, Ministry of Agriculture & Farmers' Welfare, Govt. of India.

IGKV R-ABI feels proud to share that the first cohort of forty-three agripreneurs from 7 states of India representing diverse agristreams, are graduating on Oct 19th, 2019. I sincerely thank Dr. S. K. Patil, the Hon'ble Vice-chancellor, IGKV and all those who have contributed in various roles and capacities towards successful execution of this incubation program and completion of this publication directly and indirectly. I also would like to congratulate my IGKV R-ABI team for wonderfully pooling out the resources and meticulously executing the incubation program since start.

I am sure that this effort to showcasing the success stories of Startups nurtured by IGKV R-ABI would foster a culture of innovation and entrepreneurship in agriculture sector and contribute to the enrichment of the startup ecosystemin the state of Chhattisgarh and India.

I wish all the startups very best in their future endeavours.

Dr. Hulas Pathak

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ABOUT

Indira Gandhi Krishi Vishwavidyalaya (IGKV)



Established in 1987, IGKV is an autonomous, non-profit, research and educational organization working for the upliftment of farmer's livelihood of Chhattisgarh. Education, Research and Extension are the major activities coordinated through agriculture, horticulture and agricultural engineering faculties and Directorates of instruction, research, and extension.

The mission of the University is to forge ahead in teaching, research and extension services in agriculture and allied sciences. The University intends to strengthen contemporary knowledge of agricultural science to develop strong and efficient manpower that would cater to the needs of the rural areas in particular and the society at large. To strengthen this, Vishwavidyalaya is fully determined in employing highly qualified faculties and assigning target to develop human resources, innovative and need-based technologies and their dissemination so as to serve the rural masses especially farming community of this highly backward state in particular.

ABOUT

IGKV R-ABI

The RKVY RAFTAAR Agribusiness Incubator (R-ABI) is an Agri-innovation hub and agri-business Incubator center of Indira Gandhi Krishi Vishwavidyalaya, Raipur Chhattisgarh India. Operationalized as a project, it is supported by the Department of Agriculture, Cooperation & Farmers Welfare (DAC & FW), Ministry of Agriculture & Farmers Welfare, Govt. of India under the revamped scheme Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RKVY-RAFTAAR). The project has been launched in 2018-19 and sanctioned to Indira Gandhi Krishi Vishwavidyalaya, Raipur for the year 2018-19 and 2019-20 upto 31st March 2020. The University was sanctioned this project on 7th March 2019.The Project aims at strengthening infrastructure to promote Agripreneurship and agribusiness by providing financial support and nurturing the incubation ecosystem by tapping innovations and technologies for venture creation in agriculture and allied activities.

IGKV R-ABI offers incubation space, technical and business menotring networking with agribusiness industry, scientific and information resources, conducive and supportive environment for Agri start-ups and opportunities for availing government grants-in-aid through pre-seed and seed-stage funding as per the guidelines of the RKVY - RAFTAAR scheme.

MISSION

Fostering Agri-Innovation & Agripreneurship for pronounced transformation in agriculture and allied sectors.

VISION

- To be the best hub of agribusiness incubation in central India
- To empower the Indian agri-startup ecosystem through Agri-innovation Agripreneurship
- To transform the job seekers into job creators



IGKV R-ABI Programs

Abhinav 2019: Driving Ideas In Agri Innovation

Key Benefits


Grant-in-aid
Upto ₹ 5 Lacs


8 Week Workshop


Mentorship From
Experts


Modern Research
Laboratories


Workshop Stipend
₹ 10,000 Per Month

Highlights

- A Pre-seed Agripreneurship Orientation Program (AOP)
- 2 months (60 hours) training cum hands-on internship
- Convert an innovative idea into prototype/product

Udbhav 2019: Propelling Agri Startups For Commercialization

Key Benefits


Grant-in-aid
Upto ₹ 25 Lacs


8 Week Workshop


Mentorship From
Experts


Modern Research
Laboratories

Highlights

- Seed stage funding Agripreneurship Incubation Program (AIP)of R-ABI
- Grant-in aid of maximum up to Rs. 25 lakhs with Minimum Viable Product (MVP)
- Assist the incubates to launch their products/services/business platforms
- Support start-ups to attract investments from angel/venture capitalists

FOCUS AREAS


IOT & AI
in Agriculture


Processing & Value
Addition


Organic Farming


Bio-Agents
& Bio-Fertilizers


Ornamental
Aquaculture


Farm Retailing


Bio-Agents
& Bio-Fertilizers


Agricultural Engg.
& Farm
Mechanism


Protected
Cultivation &
Precision Farming


Agri Waste
To Wealth


Supply Chain
Management


Post Harvest
Management


Crop Management


Floriculture
& Landscaping


Seed Production

IGKV R-ABI

abhinav

NURTURING SPARK IN AGRI INNOVATION

abhinav

A Pre-seed Agripreneurship Orientation Program (AOP)



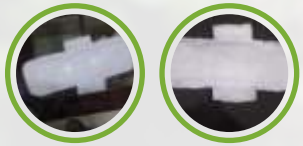
Sumita Panjwani

W2W	Registered Partnership
Estd. 2019	Dhamtari, Chhattisgarh

Focus Sector: Agri Waste To Wealth

COMPANY PROFILE

W2W is a social startup founded by a woman entrepreneur has developed a biodegradable sanitary pads leveraging post-harvest paddy straws, stubbles through the process of enzymatic hydrolysis. This innovative startup also curbs the problem of air pollution caused by the rampant burning of these farm wastes (paddy straws, stubbles, stalks etc) and use them to create wealth for the society and provides a sustainable sanitary pads for underprivileged women in rural and semi-urban areas. This sanitary pad is 100% natural, biodegradable and currently under validation phase. The entrepreneur aims promote the rural entrepreneurship by empowering the rural female youths by selling these sanitary pads to earn their social status. This social startup envisions of a healthy and prosperous India by increasing the mass base of sanitary pad users through awareness about menstrual health & hygiene in the rural areas of the country.



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Kunal Sahu

Ramanjali Organics

Registered Partnership

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Organic Farming

COMPANY PROFILE

Ramanjali Organics has an intelligent design of an integrated farming system (IFS) which produces vermicompost, vermi wash, oyster mushrooms and organic vegetables & fruits in an integrated model in a single unit. The entrepreneur has developed this unique design over years of research and trials and grows the creepers over the vermicompost in a vertical fashion creating a micro-climate and ambient temperature, suitable to grow oyster mushroom. The Integrated Farming System unit requires minimal floor space, sufficient to grow natural & organic vegetables and fruits. The startup wishes to replicate this model on franchise mode and enables the franchisee to ensure income from multiple sources through the single roof unit.





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Hemlata Deshmukh

Abhiniti Agro

Private Limited

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Processing and Value Addition

COMPANY PROFILE

Abhiniti Agro is founded by agribusiness professional specialized in ready-to-eat products and started with baking millet muffins, cakes and cookies. The startup is aiming to harness all the nutritional content of minor millets and serve delicacies to the customers by making them aware about the ill-effects of white flour (maida) which is very popular in the Indian market. The startup uses sprouted ragi and kodo which are shadow dried and grounded into flour which is then used in baking to make various value added products. Rapidly increasing customer base of this agro startup witness that nutritionally rich, gluten free and fibrous cookies are an absolute delight to munch on.





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Lakshmi Dhruv

Kalyani Ber

Balod, Chhattisgarh

Focus Sector: Post Harvest Management

COMPANY PROFILE

This startup is founded by a woman entrepreneur who's catering the needs of growing demand of freshwater fish by intensive fish farming using Biofloc technology. The startup uses a very low Feed Consumption Rate (FCR) as compared to normal fish farming because of which the costs significantly goes down. Biofloc technique helps the entrepreneurs to maintain the carbon and nitrogen ratio in the water using probiotics which feeds on the excreta of fishes and forms a colony which in turn is used by fishes and that's how there is a healthy balance maintained in the water between fish and other aquatic creatures. This technology efficiently manages the waste generated during the fish rearing process ensuring higher fish productivity and income. The startup is currently catering the local markets and envisions to cater the higher end hotel chains in going forward.



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Vandana Churendra

Koytur Fish Farming

Private Limited

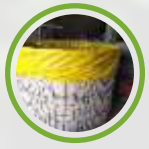
Estd. 2019

Durg, Chhattisgarh

Focus Sector: Ornamental Aquaculture

COMPANY PROFILE

This startup is founded by a woman entrepreneur who's catering the needs of growing demand of freshwater fish by intensive fish farming using Biofloc technology. The startup uses a very low Feed Consumption Rate (FCR) as compared to normal fish farming because of which the costs significantly goes down. Biofloc technique helps the entrepreneurs to maintain the carbon and nitrogen ratio in the water using probiotics which feeds on the excreta of fishes and forms a colony which in turn is used by fishes and that's how there is a healthy balance maintained in the water between fish and other aquatic creatures. This technology efficiently manages the waste generated during the fish rearing process ensuring higher fish productivity and income. The startup is currently catering the local markets and envisions to cater the higher end hotel chains in going forward.



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Yogesh Kumar Singh

Agrowia

Registered Partnership

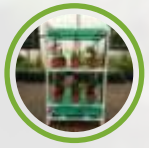
Raipur, Chhattisgarh

Focus Sector: Protected Cultivation and Precision

COMPANY PROFILE

Agrowia is an early stage agri startup developing a Gharonda Badi unit for home, kitchen, balcony gardening to grow natural, organic and healthy plants. This model is solar powered and uses vertical farming and drip irrigation system which enables the users to naturally grow a varieties of vegetables, fruits, flowers and herbs at home to meet kitchen needs. Gharonda Badi is an uniquely designed, semi-automated plug and play model easily installable and adjustable as per the available space and demands least maintenance to operate. Agrowia through its product, Gharonda Badi aims to target urban and hobby farmers to cater their raw veggies needs. The startup aims to serve the corporate clients as well in coming times by providing a self-sustainable end to end solution for landscaping, gardening in addition with consulting, support services.





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Harshaj Singh Tuteja

Tej Agri Products

Registered Partnership

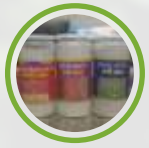
Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Post-Harvest Management

COMPANY PROFILE

The startup envisions a society where living and livelihoods are sustainable through an ecosystem built on millets. The founder is M. Tech in Agri. Engg. And aims to leverage the supernatural benefits of millets by manufacturing value added products considering the health conscious customers. The entrepreneur is taking farm to fork approach to cater the millets value added products in the food chain. To accomplish this vision, the startup is procuring kodo, kutki, ragi and other minor millets directly from farmers and process them into ready-to-cook products leveraging modern technologies like flours, malts, grains, porridges, flakes and fermented products. Once the brand name is fairly established, they wish to venture into ready-to-eat (RTE) segment as well.





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Ankit Katakwar

Gau Den Organic

Private Limited

Estd. 2019

Balod, Chhattisgarh

Focus Sector: Agri Waste To Wealth

COMPANY PROFILE

Gau Den is a social startup, founded by a college dropout turned entrepreneur, manufacturing biodegradable cow pots, organic wood (log), manure, liquid bio-fertilizer, dung bricks, diyas, dhoop batti etc. using cow dung, coco peat, paddy husk etc. Gau Den envisioned to replace the plastic bags and pots by providing cow pots for households and nurseries. These Cow pots are affordable, eco-friendly and biodegradable made of the cow dung and other locally available waste. The startup has recently launched it's products in the market and receiving huge traction and order specially after the decision taken by Hon'ble PM to ban single use plastic from Oct 2nd, 2019 onwards. The startup is also aiming to target the corporate clients by designing bigger sized pots and gifting pots with saplings in coming time.





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Shailesh Kumar Verma

Shaksh Fisheries

Private Limited

Estd. 2019

Durg, Chhattisgarh

Focus Sector: Ornamental Aquaculture

COMPANY PROFILE

Shaksh Fisheries Pvt Ltd is a startup developed an online marketplace for ornamental fish lovers with last mile delivery starting with Chhattisgarh state. The entrepreneurs are passionate and dedicated to create a unique shopping experience for the fish lovers through mobile application (My Aquarium) coupled with the post sales maintenance service with multiple customization options considering the customer preferences. The startup aggregates the aquarium and ornamental fish retailers and buyers in the state through an IT platform as of now and wishes to sell fish feeds, diagnostic kits, services and other associated products related with home aesthetics and decorative with wider variants going forward. The startup also intends to offer Crèche Services for fishes.





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Ashutosh Verma

Shree Radhe Aquaculture Farm

Registered Partnership

Estd. 2019

Durg, Chhattisgarh

Focus Sector: Ornamental Aquaculture

COMPANY PROFILE

Shree Radhe Aquaculture Farm is into production of freshwater fish using the Biofloc technology which involves high density fish farming technique that uses probiotics for beneficial microbial growth along with continuous air circulation within the water structure to ensure enough oxygen. Biofloc technology is a technique of enhancing water quality through the addition of extra carbon to the aquaculture system, through an external carbon content using probiotics which develops into colonies to consume fish waste, rich in nitrogen and the fish in turn feeds on these bacteria and grant nutrition to the aquatic animals. The startup also provides an affordable and zero percent water exchange fish farming technique that not only reduces the requirement of supplementary feed requirements but also demands less space and water.



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Chandresh Choudhary

Sanskriti Herbals

Registered Partnership

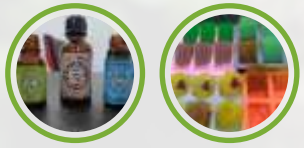
Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Processing and Value Addition

COMPANY PROFILE

Sanskriti Herbal India is a startup which brings the purity of natural essence derived from essential oils with unique blends in the products like cosmetics and toiletries which are truly herbal and natural. These products are the healthy alternatives having the potential to replace the chemical based products in similar category which are sustainable and affordable as well. A diverse range of herbal products of the company includes precious oils of geographical importance, butters like Madhuca longifolia (Indian butter), natural bath soaps, herbal mosquito repellents, green pesticides, and herbal toilet floor cleaner. In addition to this, the startup is also formulating new blends of quality essential oils for diffuser and dermal uses. The entrepreneur aims to leverage the availability of plenty of medicinal and aromatic plants to process the value added products and serve the global demand and contribute to foreign exchequer.



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Lalit Kumar

Kitchen Healthy Food And Vegetables

Registered Partnership

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Supply chain Management

COMPANY PROFILE

The Startup aims to provide an online market place for farm produces through a mobile app. The founders are agricultural graduates turned farmers cum entrepreneurs and associated with the local farmers producing the quality vegetables and fruits to ensure a fair price to them through their IT intervention. The startup initially aggregated the demands offline (text, whatsapp message, call etc.) and once the customer base touched a significant number, the founders are developing a user friendly android mobile application to cater a large number of customers. The e-commerce platform will entail the perishables i.e. fresh fruits, vegetables and few items under non-perishables i.e. cereals, pulses on the platform for the customers to place their orders online and doorstep delivery. The entrepreneurs are passionate and strongly believe in inclusive development and hence partnering with a number of SHGs and farmers' groups to ensure uninterrupted and quality produce supply. The startup wishes to create an alternate channel of supermarkets at affordable prices for it's customers to source fresh veggies, fruits and other farms produces with better price realization to the farmers thus improving farm incomes.



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Akanksha Jain

Pratikum Agritech

LLP

Estd. 2019

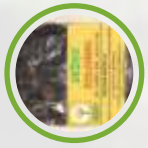
Balod, Chhattisgarh

Focus Sector: Agri Waste To Wealth

COMPANY PROFILE

The company manufactures 100% organic agri feed supplement from agri waste including molasses, forages, dry concentrates, Indian medicinal herbs blended with organic minerals, important cereals, calcium, vitamins and probiotics upcycling into low cost medicinal and nutritious animal feeds. The feed is formulated so as to increases the immunity and milk production of livestock naturally. The company believes that agricultural residues are in itself rich in many bioactive and nutraceutical compounds, such as polyphenolics, carotenoids and dietary fibres which when fed to livestock, helps in keeping them healthy and also increases immunity. Some of their other ayurvedic products are amla, flavouring agents, medicinal oils, tonics etc.





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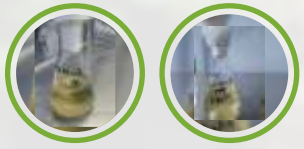
Estd. 2019

Korba, Chhattisgarh

Focus Sector: Agri Biotech

COMPANY PROFILE

The startup produces high quality liquid culture of mushroom spawn with an aim to promote micro-entrepreneurship in the state. This seasoned entrepreneur has developed a new technique which is highly efficient based on his prior experience in the similar domain. Currently, the startup aims to inculcate the entrepreneurship in rural areas by empowering the youths to grow and establish their own mushroom production units to get the money in-situ. The startup stresses on quality control and hygiene conditions in growing the mushroom and once there's a significant mushroom production, the entrepreneur aims to get into value addition and processing of mushroom. The entrepreneur believes in improved research and development for establishing new products like protein supplements and different types of spawn for a growing and diverse market.



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Manish Sahu

36Garh Agrotech

Registered Partnership

Estd. 2019

Gariyaband, Chhattisgarh

Focus Sector: Processing & Value addition

COMPANY PROFILE

The founder of the startup is agricultural graduate who aims to harness the regionally available aromatic and medicinal plants to extract the essential oils and further process into different products like soaps, incense sticks, dhoop, massage and therapeutic oils having the original and authentic natural aroma. He aims to maintain a network of local growers of aromatic and medicinal plants mentha, lemon grass, basil etc. and upon aggregation of raw materials, wishes to set up a distillation unit. With this approach the startup targets to share a fair market price with the growers by establishing a reputed brand out of it. Further, the entrepreneur envisions to establish fractional distillation unit to prepare signature blends to cater international markets as well.



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Pooja Dubey Pandey

BETi Innovative

Private Limited

Estd. 2019

Indore, Madhya Pradesh

Focus Sector: Agri Waste To Wealth

COMPANY PROFILE

Biotech Era Transforming India- BETi Research and Training Centre, Indore, ever since its inception in 2017 is delivering services with the objectives of replacing thermocol, styrofoam and other non-biodegradable packaging material with completely degradable and environment friendly Biofoam. The company supports waste to wealth concept by making biofoam from agri waste like paddy or wheat straw. The biofoam is inoculated with mycelia and other bio-agents as binding agent. The startup also has a vertical in custom made mushroom spawn, pure culture services, and providing hands on training to mushroom growers across India. The startup is on a mission of replacing non-biodegradable carcinogenic packaging material and making appropriate use of agricultural waste. In addition, the entrepreneur is also formulating mushroom based superfoods to address the problem of malnutrition.



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Aditya Niyogi

Aditya Agri Automation

Registered Partnership

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: IOT and AI in Agriculture

COMPANY PROFILE

Aditya Agri Automation is an agtech startup founded by a robotics engineer turned entrepreneur with an aim to automate the agricultural and farm operations using precise and high-tech machineries available at affordable prices. This high end robotics will significantly improve the overall efficiency of the farm operations over the current manual practices without compromising on cost and input quantity. The entrepreneur is currently developing an automatic robotic arm considering the regular increase in labour shortage and charge for crop weeding and plant protection practices, having equipped with smart sensors, cameras and spraying nozzles to identify pests and application of pesticides judicially. The startup envisions to make precision farming affordable and accessible to every small and marginal farmer of India.

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Mamta Dhurde

AM FARMZ Agrosolutions

LLP

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Processing and Value Addition

COMPANY PROFILE

Farm's Agro Solutions is a foodtech startup founded by woman entrepreneur, preparing a number of value added ready-to-eat (RTE) products from black rice using minimal spices, additives, flavouring agents. The range of products includes wafers, snacks, cookies, baked chaklis and so on. The startup uses locally grown exotic black rice variety rich in phytonutrients, anti-oxidants, vitamins, fibres and anti-cancerous & anti-diabetic properties. The entrepreneur is targeting the health conscious customers and provide a healthy alternate of existing RTE products without compromising on taste bud experience. The startup strongly believes in sustainable development goals and aims to create the employment opportunities for women from the weaker sections of the society from the vicinity of Raipur.





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Manish Agrawal

TIOT Systems

Private Limited

Estd. 2018

Bhilai, Chhattisgarh

Focus Sector: IOT and AI in Agriculture

COMPANY PROFILE

TIOT Systems is an agri startup, focusing on to develop an IOT and sensors enabled system to capture micro climatic data, soil condition data with real time controls which can aid the farmers to take informed & effective farm decisions. The startup has already developed an integrated software platform offering different crop production modules, crop calendar for managing post-harvest and pre-harvest processes like distribution, logistics, inventory, storage and billing. Tiot Systems has been founded by a team of passionate engineers having a vast experience of developing IOT and AI based smart machine. The entrepreneurs have previously rendered their services and technical expertise to the organizations like ISRO, IIT-Kgp, DRDO etc. The startup is now aiming to revolutionize the agricultural farms and thereby improving the farm productivity and income with their inventions through integrated models of software and hardware devices using advanced technologies.



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Jay Kumar Sahu

Prodromus Solutions

Private Limited

Estd. 2019

Raipur, Chhattisgarh

Focus Sector IOT and AI in Agriculture

COMPANY PROFILE

Prodromus solutions is newly registered agri startup founded by a fresh engineering graduates (still pursuing) with an aim to provide a solution for agri & farm automation using Internet of Things (IoT), Image analytics through mobile application. This startup offers a crop monitoring system to keep a track of crop production parameters leveraging the technologies for continuous crop monitoring using the integrated system of different sensors and actuators. To begin the entrepreneurial journey, the entrepreneurs are currently designing and developing a smart soil moisture meter to monitor the water moisture levels against multiple factors like crop, soil depth, weather etc. These affordable smart soil meters are directly connected with the cloud and through the software integration, it collects, processes the data and provides the irrigation solution the farmers through mobile & voice alerts. Once the startup will have enough cloud data, they wish to venture into further automation leveraging deep tech to empower the farmers by churning out the insightful and action oriented recommendations.

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Ilamurugu Muthu

Binmach Software

Private Limited

Estd. 2018

Chennai, Tamilnadu

Focus Sector IOT and AI in Agriculture

COMPANY PROFILE

BINMACH, stands for Binary Machines, an agritech startup, founded by Stanford Graduate that provides technology solutions though it's Mobile App 'Plant Doctor' to tackle the major threats of pests and diseases by real time diagnosis using image analytics and cloud computing. By uploading pictures of affected crops to the mobile application, the users can quickly diagnose the agents like fungi, insects, pests and get to know about the remedies to deal with the infestations before it things get out of control. Plant Doctor App aims to help small farmers to fight pests and diseases in it's early days to prevent the crop economic losses. Using a public dataset of nearly 20,000 images of diseased and healthy plant /leaves, collected under controlled conditions, the mobile app algorithm has been trained with a deep convolutional neural network to identify 100 diseases (or absence thereof). The trained model has achieved an accuracy of ~99.35% on a held-out test set, demonstrating the feasibility of this approach. Currently the entrepreneur is collecting the independent data (images) against various pests, insects and diseases across different geographies of India to further train the algorithm and refine the product.

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Ankur Sinha

Retcons Technology

Private Limited

Estd. 2018

Ambikapur, Chhattisgarh

Focus Sector: IOT and AI in Agriculture

COMPANY PROFILE

Retcons offers an artificial intelligence (AI) based solution that enables farmers to diagnose and treat plant diseases and pests attack through a mobile app 'ReAgriFarm' in which users can upload images of their infested crops, which are then analysed through the AI enabled algorithm for automatic disease identification. The farmers will receive the disease diagnosis and recommendations of it within seconds in real-time and the same can be consulted with agri-experts to seek their consultation. Retcons also offers the 'ReAgriShield' which is an artificial intelligence crop disease and pest alert system which notifies subscribers upon detecting the crop diseases and pest attacks in the standing crops in farms. These customized alerts will also consist of preventive remedies with recommended agri-inputs to be applied to avoid further infestations and thereby minimizing crop losses.

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Vedant Khandelwal

Focus Sector: IOT and AI in Agriculture

COMPANY PROFILE

AgriTek is a startup, founded by a team of passionate IT graduates. The startup aims to provide an end to end crop monitoring system which automates the irrigation, predicts the disease and pest attacks in the standing crop. This integrated product solar powered and has highly efficient user interface considering the education affordability of Indian farmers. AgriTek uses self-designed solar sensor node which is the power hub of this system for crop monitoring and disease prediction. Currently the prototype is under development, post which the entrepreneurs seek to validate in real farm conditions with commercial crops like cotton, chilli etc.

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IGKV R-ABI

UDBHAV

The Agri-startup Accelerator

udbhav

Seed Stage Agripreneurship Incubation Program (AIP)



Jayanti Mahapatra

Manikstu Agro

Private Limited

2015

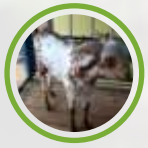
Pune, Maharashtra

Focus Sector: Animal Husbandry and Meat Processing

COMPANY PROFILE

Manikstu Agro started with a vision to improve the useful but much neglected Indian goats business which can not only improve the lives of unprivileged marginal farmers of Kalahandi district but also can creates a foundation for a bigger change. The startup has a state of the art goat rearing and breeding facilities and works as an apex centre for goat farming in Kalahandi district in Orissa. The entrepreneurs work with local goat keepers by providing them training on newer methods of stall feeding, disease management and with improved breed of animal for higher yield of meat and milk. The objective of the startup is to double the income of goat farmers through different interventions and to make the sector more organized and strengthened to cater the growing demand of the market in Orissa and other states.





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Ambika Satapathy

ZooFresh foods

Private Limited

Estd. 2016

Bhawanipatna, Odisha

Focus Sector: Supply chain Management

COMPANY PROFILE

FreshR is India's first technology-enabled integrated platform (digital+physical) to organize the $30 bn fresh meat industry in India. The project is being piloted in some of the poorest districts in four states in Eastern India - Odisha, Chhattisgarh, Andhra Pradesh and Telangana - with a PPP with the Odisha govt. The goal is to de-risk the entire value chain and make it transparent and organized. The platform will improve small-scale livestock farmers' incomes upto 8x, enhance livelihoods for rural, tribal & small-town micro-entrepreneurs, reduce post-harvest losses from 25% to 3%, promote local, responsibly-farmed produce and reduce usage of preservatives, antibiotics and growth hormones.



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Dev Garg

Netraum Ayurveda

Private Limited

Estd. 2018

Raipur, Chhattisgarh

Focus Sector: Aromatic and Medicinal Plants

COMPANY PROFILE

Netraum Ayurveda has developed an herbal formulation which claims to cure the cataract, a leading cause of blindness in the world,having only treatmentas surgery. The product'Netraum Anjan' (eye balm) claims to cure cataract within 30-60 days and also improves eye vision without posing any side effects. Additionally, near-sightedness (myopia), epiphora and blurred vision can also be improved significantly within few days of application. This product relaxes the eye nerves and keeps the users away from eye sight problems.





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Purshottam Lal Sahu

Gurudev Hightech Herbals and Research Center

Registered Partnership

Estd. 2016

Gariyaband, Chhattisgarh

Focus Sector: Aromatic and Medicinal Plants

COMPANY PROFILE

Gurudev Hightech Herbals & Research Centre deals with medicinal and aromatic plants locally grown in Chhattisgarh state in enabling the rural economic upliftment. The startuphas it's own farms of lemongrass, mentha, basil and other medicinal crops and aims to inculcate the practice of growing the medicinal & aromatic plants by fellow farmers so as to improve their farm incomes. Currently, the startup owns a mini distillation unit to extract the essential oils and experiment on the different blends of perfumery products. The startup's mission is to actively contribute to our PM'svision of doubling farm income by 2022 by enabling the farmers to cultivate medicinal & aromatic plants and help them to enjoy better profit margin. The founder wishes to establish the hub and spoke model to aggregate the plants and aims to extract and export the essential by installing a fractional distillation unit.





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Anand Kumar Tamrakar

Nutrizo Organics

Private Limited

Estd. 2011

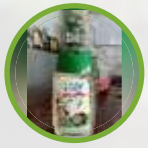
Raipur, Chhattisgarh

Focus Sector: Bio-agents, Bio fertilizers and Nano fertilizers

COMPANY PROFILE

This startup has developed an eco-friendly food grade surfactant, pestiwash after years of R&D to ensure the safe consumptions of agri produces (fruits, veggies etc). This organic and 100% natural product has been certified by NABL. Pestiwash washes off the pesticides, germs & bacteria, dirt & dust, other chemicals, waxes and preservatives from the surface of farm fruits and vegetables. The product is formulated by food experts which is safe, affordable and easy to use. The startup has received the FSSAI licence and the product is currently under market validation (pre-launch) with a sample size of more than 300 households across different geographies of India.





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Mr Anirudh Bagchi

Aditya Bioinnovation

Private Limited

Estd. 2017

Nagpur, Maharashtra

Focus Sector: Bio-agents, Bio fertilizers and Nano fertilizers

COMPANY PROFILE

The startup has developed a proprietary& 100% natural formulation of plant nutrients, plant growth regulator, health booster, mosquito repellents etc. using the ingredients of multiple botanical extracts. The product has been fool proofed with multi-location trials against a number of crops. The formulation of this product is highly effective and needs a few drops to cater a larger area to protect the crops against pests, fungus, viruses, insects etc. Post successful trials, the startup partnered with a wider network of marketing partners to reach a large number of farmers. The startup has been granted the patents for 3 of it's products.





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Satish Kumar Mehto

Feedko Agrokart

Private Limited

Estd. 2016

Ranchi, Jharkhand

Focus Sector: Supply chain Management

COMPANY PROFILE

FEEDKO AGROKART is a frontrunner startup solving a massive problem of leading supply chain management platform in eastern India. They connect the farmers directly to retailers, Super Markets, Processing Units, and Commercial Kitchen etc. They ensure better prices for the grower community by bridging the demand-supply gap. Feedko agrokart have an innovative platform to market all kinds of agricultural produce in India. They aim to increase the income of farmers by revolutionizing the agriculture marketing system in India.



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Deepak Dhruw

Agriryds

Registered Partnership

Estd. 2017

Jagdalpur, Chhattisgarh

Focus Sector: IOT and AI in Agriculture

COMPANY PROFILE

AgriRYDs is an startup founded by a bunch of engineers turned farmers in 2016 with an aim tointegratethe farming with automationusing modern, digital and IOT technologies. The startup operates from Jagdalpur, Bastar (C.G.) and dedicated to empower the farmers through digitization. The startup provides on stop solution by providing automated drip irrigation with state-of-the-art technologies at affordable price. In addition, AgriRYDs does also offer easy repair services optionsto it's customers and hence minimizes the machine downtime translated to minimal farmer's loss. The startup has developed a range products catering the needs of small, medium and large agriculture farms with various options of customization at various levels of automation. Currently the products are available in the state of Chhattisgarh and soon the startup is going to expand it's business to other states of India.



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Purushottam Naik

Mycelia Biotech

Private Limited

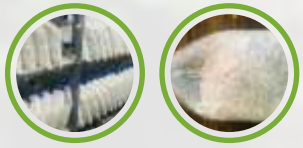
Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Mushroom Cultivation

COMPANY PROFILE

Mycelia Biotech Pvt Ltd is an agri-startup dealing with mushroom spawns of different varieties. The founder envisions to be the biggest mushroom spawn producer and distributor in the central India. The startup has developed a unique and innovative technique at affordable costs which helps them to grow larger quantity with better quality of mushroom spawn in limited & confined area. The entrepreneur currently produces 6 tons of mushroom spawns every year and is already supplying across the states of Chhattisgarh and M.P. The startup also aims to promote micro-entrepreneurship by encouraging rural youths to take up mushroom production to curb the challenge of unemployment rural and suburb.The startup is also targeting to launch it's own brand to retail the mushroom and it's various value-added products like mushroom powder as an healthy alternative for gym, sporting freaks etc.



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Saurav J. Sarma

Pekhansa

Private Limited

Estd. 2019

Guwahati, Assam

Focus Sector: Processing and Value addition

COMPANY PROFILE

"Pekhansa" is a food chain startup founded by 2 passionate engineers turned foodies in Guwahati and aims to serve varieties of "Panipuri" through an innovative and patented "Panipuri Vending Machine". The startup provides one stop solution to panipuri lovers in the form of an automatic panipuri vending machine which performs all the jobs of panipuri catering starting with potato mash to piercing the panipuris till it's serving. The entrepreneur is focusing on both B2B and B2C customer segments. In B2B segment, the startup is aiming to offer "Panipuri Vending Machine" for the shopping malls, Airports, Metro station, Railways station, Corporate offices etc. In B2C segment, they are targeting to establish their own food chains on franchise model serving a variety of panipuris. In addition, the startup also manufactures various automated food processing machineries like Chapatti making machine, Puri making machine, Dough kneader, Pulveriser machine etc.





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Durgesh Gangir

Ganjir Food Tech

Registered Partnership

Estd. 2015

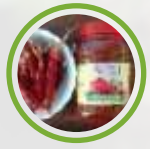
Balod, Chhattisgarh

Focus Sector: Processing and Value addition

COMPANY PROFILE

Ganjir foods is a food startup founded by an Agril Engg Graduate aiming to harness the horticultural potential of Chhattisgarh State by venturing into post-harvest processing of fruits and vegetables. The entrepreneur is redefining the pickles, chutneys making processes leveraging the abundance of regionally available raw ingredients with unique blending. The enterprise is already selling it's products in the market since 3.5 years across Chhattisgarh state. Ganjir Food Tech currently manufactures Pickles, Sweet chutney, Pickled Juice, Dry Pickles, Dry Chutney Powders, Chat Masala, Super foods Pickles, Leafy vegetables pickles, Pickled Salad, Green & Herbal Chutney etc. The startup does have a range of homemade pickles, premium pickles and popular pickles under the brand name GAURA which is ISO 9001:2015 certified. Ganjir foods have a very strong supply chain network of distributors, wholesalers and retailers and engage directly with more than 800 repetitive customers apart from their channel partners.





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Shiv Govind Singh

Junglee Healthy

Private Limited

Estd. 2019

Dantewada, Chhattisgarh

Focus Sector: Processing and Value addition

COMPANY PROFILE

Junglee Healthy is an agri startup operating from Dantewada, one of the most backward tribal districts of India with a mission to provide a nutritious, healthy food and snacks leveraging the locally available raw materials and rural youths. The entrepreneur bears a vision of "healthy nation, prosperous farms with bio-diversity conservation". The entrepreneur believes that economic upliftment of bottom of the pyramid of Bastar region is important for sustainable growth of rural youths. Bastar region is prominent for Mahua production and currently the fruit is extensively used for liquor brewing and hence the divine butter tree is losing its nutritive identity. The entrepreneur has developed a range of healthy and nutritious value-added food products like Daliya, Laddu, and Biscuits rich in Calcium, iron, carbohydrates and phosphorus from "Mahua Flower".





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Yogesh Kumar Sonkar

Nature Wall Biotech

Private Limited

Estd. 2019

Durg, Chhattisgarh

Focus Sector: Soil And Water Conservation

COMPANY PROFILE

Nature Wall Pvt Ltd is a startup operating in the field of agri-inputs and developed a unique formulation for soil conditioning using natural & biodegradable ingredients which significantly enhances the water holding capacity of the soil multi-folds. This granular formulation improves the soil productivity and can hold the water at least for 20 days of first irrigation. Recently the product is launched in market and gaining a huge momentum from Indian as well as foreign players. The entrepreneur is filing a patent for the product. It is acclaimed that the regular application of this product may increase the water table in the area of application as it doesn't allow the water to percolate/leach down. The product is very sound and promising for the farmers in the drought prone areas.





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Dr. Sunila Kumari

Dragon Flora Farms

LLP

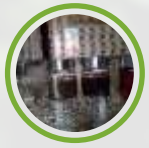
Estd. 2019

Pune, Maharashtra

Focus Sector: Crop Management

COMPANY PROFILE

The startup is founded by a woman agribusiness professional turned entrepreneur with an aim to be the global leader and one stop solution provider for Dragon Fruiti.e. 'super food'. The entrepreneur offers atotal solution for dragon fruit farming right from providing the premium quality planting material, agronomic support, buy back arrangement and post-harvest handling of the produce and claims to be in the list of very few and limited players in this segment. The startup takes a pride intheir team's decade of work experience and execution capabilities coupled with scientific knowledge of the exotic crop, powered by international collaborations. The entrepreneurs' team have pioneeredthe dragon fruit farming in India. The startup has a stock of the largest and oldest mother blocks, which enables them to provide guaranteed quality planting material and ensures a better farm produce. Currently Dragon flora farms is functional in the states of Maharashtra, Haryana, Tamilnadu, Chhattisgarh, Orissa and Gujarat and soon planning to expand it to other states like Andhra Pradesh, Telangana etc.As the startup grows, the entrepreneuralso aims to venture intothe fruit processing and value-addition to develop healthy, nutritious value added products of Dragon fruit which not only adds to the taste but also consumer's health. The startup envisions to expand their market in other super fruit crops as well having higher nutritional value as well as increasing market demand, apart from being potential solution to mitigate climate change.





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Jai Kumar Sao

Prakruti Farms

Private Limited

Estd. 2019

Raipur, Chhattisgarh

Focus Sector: Animal Husbandry

COMPANY PROFILE

Prakuti Farms Pvt Ltd. is into moringa cultivation integrated with Goatry, Poultry and Fishery. The integrated system is self-sustainable with zero-waste in nature. The livestock is co-dependent for fodder which results into variety of products having different maturity period. This farming system yields better financial results to the farmers by minimizing the cost of fodder and dumping the waste. This model is truly sustainable and enriches environment, society and economy altogether.

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सत्यमेव जयते
Ministry Of Agriculture & Farmers Welfare
Government Of India

INDIRA GANDHI KRISHI VISHWAVIDYALAYA, RAIPUR (C.G.)
RKVY-RAFTAAR Agri-business Incubator (R-ABI)

Agripreneurship Orientation Programme
ABHINAV 2019

Agribusiness Incubation Programme
UDBHAV - 2019

Two Months Programme : 21st Aug - 19th Oct 2019











RKVY-RAFTAAR AGRI BUSINESS INCUBATOR
INDIRA GANDHI KRISHI VISHWAVIDYALAYA
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Fostering Agripreneurship