



**3.3.1 Institution has created an ecosystem for innovations, Indian Knowledge system (IKS) including awareness about IPR, establishment of IPR cell, Incubation center and other initiatives for the creation and transfer of knowledge and the outcomes of the same as evident.**

**Response:**

*The University has created an ecosystem for all stakeholders by promoting innovations, start-ups and up scaling of technologies by the establishment of research facilities, with investments in equipment and infrastructure. The University has created an ecosystem for Research and Innovation by recruiting competent human resource (the first Agriculture Institution in state to adopt transparent online recruitment system), putting in efforts for creation and dissemination of knowledge and technologies, by establishing state of the art infrastructure including incubation center.*

*Faculty members are provided with financial aids to undergo professional development programmes like conferences, seminars and workshops. For need based innovative advance research infrastructure has been created, both through extramural sources including center and state funding and also through intramural funding. Central facilities and advanced Research Centers and Laboratories including Molecular Genetics and Biotechnology, Speed Breeding, Climate Change, Residue Analysis lab, Soil, water and fertilizer Testing Lab, Gene bank, Aeroponics & Hydroponics research facility, Incubation center, Centre of excellence on Organic farming, Centre of excellence on Oilseed Crop Research, Centre of Excellence on honeybee production, Centre of excellence on Biotechnology, the state of the art Digital library, Virtual Class Room, VRL, ATIC, KVKs etc. have been established.*

*For building resilient innovation ecosystem, RVSKVV works on innovation platform by providing training for entrepreneurs and Start-ups, sector specific technological training, sectoral workshops/ seminars, industry*



**METRIC 3.3.1**

*oriented marketing development/ value addition workshops, collaboration with various State Agriculture Universities and ICAR Institutions, vast network of KVKs, ZARS,NARS, Agriculture and allied field Colleges and Research Institutions, empanelled business and technical mentors, global Network with Agribusiness Professionals, buyer- Seller Meet, bankers meet, funding support- Investor connect, focused Trainings and capacity building sessions, market oriented workshops, capacity building- management training & workshop, branding and packaging of products, business planning and evaluation, accounting and legal compliance for FPO's. CAIE also has Centre for Excellence in Drone Technology. CAIE offers support in Ideation to Market, business plan preparation, access to State-of-the-Art Facilities, Backward and Forward Market Linkage, connect with government schemes, networking, and farm to fork.*

*The extension curriculum and research studies stress upon documenting Indigenous Technical Knowledge. The IPR Cells of the University Head Quarter and at the Colleges identify potential licensee(s) for IP of which the University will have ownership. The creation of intellectual property not only contributes to the professional development of the individuals, but also enhances the reputation of the University that provides educational opportunities for students and promotes public welfare. Centre for Agribusiness Incubation is committed for the percolation of Indian knowledge system at the grass-root level, like in transfer of indigenous A2 Ghee, Vermi-compost production, manufacturing cow dung products, designing shield products., use of water hyacinth for making products like bag and cap, cultivating herbal and medicinal crops for producing value added Ayurvedic and Cosmetic products.*



Glimpses of KVK

**Awareness  
Building in  
Indian  
Knowledge  
System  
Glimpses of  
KVK**





## Natural Farming Activities







## Natural Farming Activities











**Field Visit of SHG Farmers on Turmeric Field**



**Technical Fest on Natural Farming at KVK Alirajpur**





Glimpses of KVK



**Farmers day Organized at KVK, Alirajpur**



**Farmer Awareness Programme on Natural Farming**





Glimpses of KVK



**Training on Value Addition on Processing of Chana as Dal**



**Veterinary Health and Vaccination Camp**





**Diagnostic Visit on YMV Disease in Black Gram Crop**



**Training on control of YMV on Farmer Field**





**Field Visit with Collector Madam on Farmer's field**



**Training Programme for farmers and farm women**





Glimpses of KVK



**World Pulse Day Organised at Village**



**Training Programme for farmers at KVK, Alirajpur**





**Training on Vermi Compost Technology**



**Training on Betel Vine Crop in Shade net House**





Glimpses of KVK



**Farmers Awareness Programme on Natural Farming**



**Demonstration: Jeevamrit Preparation Under Natural Farming**





Glimpses of KVK



**Training on Natural Farming**



Galaxy A33 5G

**Training Programme of Natural Farming at Sejawada Village**





Glimpses of KVK



**Training on Natural Farming**



**Training on Nano DAP and Nano Urea**





**Training on Nutritional Garden and Plantation Campaign**



**Interaction of Farmers and Scientist**





Glimpses of KVK



**Technology demonstrations to farmers and students KVK, Morena**







Glimpses of KVK



**Training on Blue-green algae production**



खता-किसानी

# ग्रामीण युवाओं को दिया वर्मी कम्पोस्ट का प्रशिक्षण

युवाओं को किया जागरूक

पत्रिका न्यूज नेटवर्क  
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दक्षिण कृषि विद्यालय केन्द्र यथिया द्वारा दो दिवसीय ग्रामीण युवाओं के लिए व्यावसायिक प्रशिक्षण अंतर्गत वर्मी कम्पोस्ट उत्पादन तकनीक विषय पर प्रशिक्षण आयोजित किया गया। प्रशिक्षण में युवाओं को वर्मी कम्पोस्ट एवं वर्मी बीज उत्पादन करने के लिए वैज्ञानिकों द्वारा संतुलित जानकारी उपलब्ध कराई।

उल्लेखनीय है कि जिले में उद्यानिकी व अन्य विषयों के सहयोग से वर्मी कम्पोस्ट युक्ति बनाई गई है। लेकिन कई कृषक वर्मी कम्पोस्ट का उत्पादन नहीं ले



प्रशिक्षण कार्यक्रमों में किसानों को संबोधित करते वैज्ञानिक।

पा रहे हैं। इसीलिए प्रशिक्षण के लिए उनके पास वर्मी कम्पोस्ट तैयार करने के लिए युक्ति उपलब्ध है।

प्रशिक्षण के दौरान सशुद्ध वैज्ञानिक एवं प्रमुख डॉ. आरकेएस तैयार ने कृषकों को बताया कि कम एवं असंतुलित मात्रा में उर्वरक प्रयोग करने, सफा फसल पत्रक अपनाने, उच्च उत्पादक किस्मों के प्रयोग व कार्बनिक खादों का उपयोग बंद होने के कारण धूमि की उर्वरा क्षमता कम हो रही है।

अतः वर्मी कम्पोस्ट ही ऐसा उपाय है जो कि आसानी से बचसा जकर उपयोग किया जा सकता है। उन्होंने कृषकों को यह भी जानकारी दी कि कितने कृषकों द्वारा वर्मी कम्पोस्ट का उत्पादन किया जाता है और यदि नहीं किया जा रहा है तो जो भी तकनीकी समस्या है उसका निदान केन्द्र के

वैज्ञानिकों द्वारा तकनीकी सहायता के माध्यम से किया जाएगा। यहाँ वैज्ञानिक डॉ. बीरस कंसान ने कृषकों को वर्मी कम्पोस्ट की तकनीकी जानकारी प्रोजेन्टेशन के माध्यम से दी।

उन्होंने वर्मी बीज तैयार करने के बारे में भी विस्तारपूर्वक जानकारी दी। इसी क्रम में वैज्ञानिक डॉ. एके सिंह ने भी कृषकों को वर्मी कम्पोस्ट उत्पादन से जुड़ी समस्याओं का निदान किया एवं वर्मी कम्पोस्ट बनाकर बीट व बीमारियों से कैसे सुरक्षा की जाए के बारे में बताया। प्रशिक्षण के दौरान वैज्ञानिक डॉ. केके चरण, डॉ.वाईसी रिखाही ने भी विभिन्न जानकारीयों प्रदान की।



Vermi compost unit





**Vermi compost unit**



**Farmers' trainings on Use of ITK based technologies**





Glimpses of KVK



**Farmers' trainings on Use of ITK based technologies**



**Exploration for local Germplasm collection**





Glimpses of KVK



Awareness building on Natural farming







Glimpses of CAIE

**Awareness  
Building in  
Indian  
Knowledge  
System  
Glimpses of  
CAIE**





Glimpses of CAIE



# CENTRE FOR AGRIBUSINESS INCUBATION AND ENTREPRENEURSHIP

**Rajmata Vijayaraje Scindia Krishi Vishwa  
Vidyalaya, Gwalior, Madhya Pradesh**





## Centre for Agribusiness Incubation and Entrepreneurship, RVSKVV, Gwalior

The Centre for Agribusiness Incubation and Entrepreneurship was established in the year 2020 as a joint initiative of Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya, Gwalior (M.P.) and National Bank for Agriculture and Rural Development (NABARD). CAIE is one of its kind Agribusiness Incubator based in Central India with exclusive focus on Agriculture and allied sectors.

The Centre has become a hub of innovation and entrepreneurship by creating quality centric startups, world-class infrastructure, knowledge-based ecosystems, intellectual human resources, and above all a culture of competition and cooperation. CAIE is committed to support, foster & nurture each of its incubates to graduate as a successful business.

### VISION:

Development of self-sustainable agri-business incubation facilities and creation of a dynamic Agribusiness ecosystem that is driven by innovation and entrepreneurship, to bring prosperity to farming community through innovations, knowledge-based ecosystems to create an economic impact in the society.

### MISSION:

- Create better policy environment and promotion of competitive agri-business
- Establishment of the forward and backward linkages
- Support through infrastructure, technology, investment on business development and handholding.
- Sustainable progress of agriculture and allied sectors
- Conservation of natural resources
- Aid farmers in increasing revenue generation activities
- “Atma Nirbhar Bhaarat’ and ‘Swa-rojgaar’ values

### MANDATES:

- **Sensitization:** Sensitize about opportunities in Agribusiness sector and support provided by CAIE to all stakeholders across the agricultural value chain.
- **Financial Support:** To deliver the financial support to the Start-ups/ FPOs through Government Schemes
- **Swa-rojgaar:** Create awareness among students about Agriculture related Entrepreneurship as a career option (Swa-rojgaar).





## Glimpses of CAIE

- **Value Chain enhancement:** To create a robust value chain from lab to the market for agricultural produce
- **Quality Seeds:** To motivate/support farmers in production and productivity of quality seeds.
- **Knowledge and technology transfer:** To provide knowledge and technology transfer through capacity building programs and training programs
- **Linkages:** To create an effective roadmap and chain linking Farmers, FPOs, Start-ups and markets.
- **Conservation:** To support startups in water conservation domain and conservation of natural resources in general

### Associations:

CAIE is actively working with 76 Farmer Producers organizations (FPOs)

Academic Institutions: CAIE is associated with ABV-IIITM, Gwalior, Dream Hatcher Incubation Center, Gwalior, Entrepreneurship Development Institute of India (EDII), Ahmedabad, Gujarat.

### Current Status:

- More than 310 registered CAIE entrepreneurs across 21 states in India
- 76 Registered FPOs
- 62 registered incubates
- 34 DPIIT registered start ups
- 20 Student Entrepreneurs

### CAIE Activities:

- **Sensitization:** Sensitization workshops, seminars, meetings organized with Farmers, FPOs, Students, Entrepreneurs, Startups.
- **Sector Specific Technological Trainings:** For capacity building of various stakeholder and transfer of technology.
- **Marketing development:** Expert support in branding, packaging and marketing of products. Support in digital marketing of startups.
- **Drone Technology:** Promotion of usage of Drones in Agriculture and allied sectors.
- **Industry oriented value addition workshops/trainings:** Support value addition in the agricultural commodities
- **Backward and Forward Linkages:** Provide backward and forward linkages support to our members and incubates, Go-To-Market FPO Market connect Workshops



## Glimpses of CAIE

- **Collaborative programs:** With various State Agriculture Universities, KVKs, technical institutions and ICAR Institutions.
- **Mentorship:** Mentorship support by empaneled business and technical mentors
- **Buyer- Seller Meet:** Connecting FPOs, farmers, startups with the industry
- **Bankers meet:** Facilitating easy documentation and solving issues related to capital requirements of new businesses.
- **Funding support- Investor connect:** Facilitating financial requirements of budding entrepreneurs by connecting them with government schemes and investors.

### Centre for Excellence in Drone Technology:

National Bank for Agriculture and Rural Development has sanctioned a project for 'Adoption and Application of Drone Technology in Gwalior District of Madhya Pradesh by Centre for Agribusiness Incubation and Entrepreneurship, RVSKVV, Gwalior. CAIE has purchased one Agricultural Drone and has a full time DGCA certified drone pilot.

### Mandate and activities under the project:

- Sensitization and Promotion of drone usage in Agriculture
- More than 500 farmers have registered with CAIE for spray using the Agricultural Drone in their field.
- Help to farmers in improving productivity and farm output
- Reducing the input cost by judicious usage and efficient application of pesticides and fertilizers
- Help in reducing environmental impact by reducing soil and water pollution
- Increases employment opportunities for rural youth, women, farmers
- Creation of custom hiring centres for drones in Rural and Tribal Areas
- Encourage entrepreneurs for establishing drone related enterprises- Support Industry
- Help in research for deeper analysis and impact of long-term usage of drone technology

### Awards:

- CAIE received Krishi Bhushan 2022 Award for its outstanding performance, significant contributions and excellence in Agriculture sector during Krishi Manthan -6, National Agri-Business Summit 2022, Organized by ISED and State Institute Of Agricultural Extension And Training , Bhopal



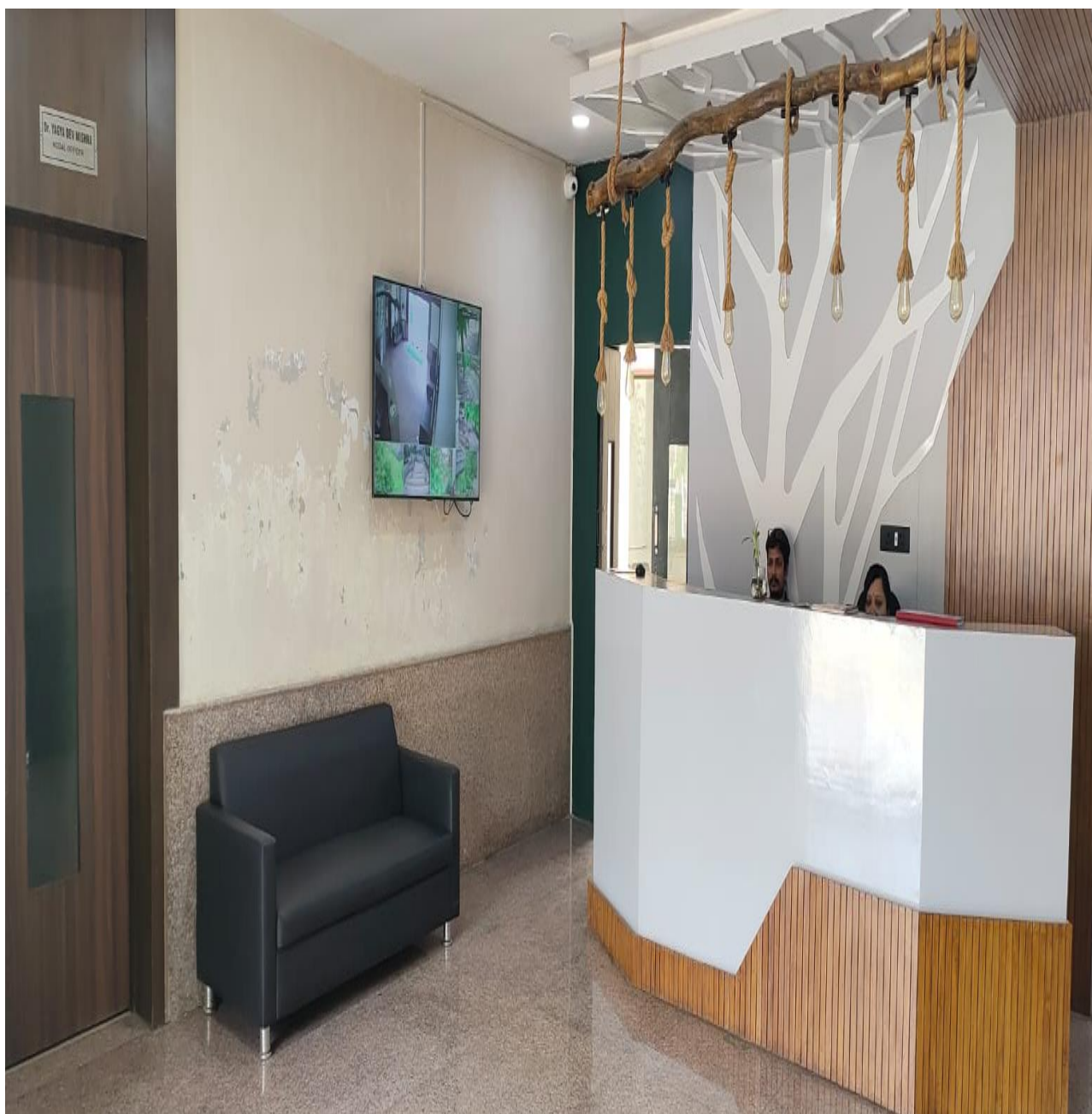


## Glimpses of CAIE

- CAIE Incubate Chambal Agro FPC received Best Agri–Startup 2021-22 and Best Emerging FPC 2021-22, on the occasion of the 47th Foundation day of ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad.
- CAIE Incubate received Krishi Bhushan Award 2022 in FPO category at Krishi Manthan- 6, The National Agri Business Summit 2022, organized at SIAET, Bhopal
- CAIE Incubate received Best Innovation Start-up in the TIIC Hackathon organised ABV-IIITM, Gwalior under ATAL Research and Incubation Conclave.



## Infrastructure available at CAIE, RVSKVV, Gwalior



**Reception Area**





## Conference Hall



## Class room





## Cubic Setup in Office



## Director's Meeting Chamber







## ACTIVITIES CONDUCTED BY CAIE, RVSKVV, GWALIOR

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
1.	Entrepreneurship Development in Agriculture	Training	The main objective of this training was to Empower Farmers, Building Financial Literacy, Encouraging Sustainable Practices for regular income	20/09/2021	70
2.	CAIE-students outreach 'Agri Tourism based Entrepreneurship for students'	Workshop	Introduction and Business Planning on Agri-Tourism, Marketing and Promotion of Agri-Tourism, Community Engagement and Collaboration	21/09/2021	80
3.	CAIE-students outreach "Management skills for career development of students and entrepreneurs"	Workshop	Self-Assessment and Goal Setting, Time Management, Communication Skills, Leadership Development, Critical Thinking and Problem Solving	24/09/2021	110
4.	Sensitization workshop program at Army Public School, Morar, Gwalior, under the Atal Tinkering Labs program.	Workshop	Women entrepreneurship training programs aim to unlock the untapped potential of	6/8/2022	70



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			women entrepreneurs, accelerate their business growth, and foster inclusive and sustainable economic development.		
5.	Sensitization workshop was conducted by at Kendriya Vidyalaya-1, Gwalior, under the Atal Tinkering Labs program.	Workshop	To develop knowledge regarding business skills, time management, financial management	7/8/2022	50
6.	Sensitization workshop conducted with Army Welfare Society, Morar Cantt, under women entrepreneurship.	Workshop	Women entrepreneurship training to empower women with the knowledge, skills, resources, and confidence to start and grow successful businesses	22/08/2022	80
7.	Sensitization workshop conducted with ITM University students visited CAIE under student entrepreneurship.	Workshop	To Develop Entrepreneurial Mindset, Build Business Skills, leadership skill, risk taking capacity	23/08/2022	150
8.	National Seed Congress	Seminar	The main objective of Natation seed congress was to provide a platform for stakeholders in the seed industry,	21-23/08/2022	400





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			including researchers, policymakers, farmers, seed producers, and industry representatives		
9.	A FPO meeting was conducted CAIE along with NABARD on potato value chain. In this program, all FPO and progressive farmers of potato attend the meeting.	Seminar	Address the challenges, collectively working towards the improvement of potato cultivation, and the livelihoods of potato farmers.	8/9/2022	50
10.	Agri-preneur workshop was conducted with NAHEP for developing the ecosystem of agribusiness among the students.	workshop	Entrepreneurial Skills Development, Technical Knowledge Enhancement, Market Awareness and Access, Risk Management	9-10/09/2022	50
11.	Training program on "Entrepreneurship Development in Agriculture" was conducted by CAIE with association of ICAR-NAARM. This program focus on entrepreneur skill and opportunities in agribusiness.		To equip participants with the Understanding Entrepreneurship, Identifying Opportunities, Business Planning, Marketing and Sales, Networking and Collaboration	20/10/2022	50



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
12.	A Start-up meet was conducted by smart city and participated by all incubation centres of Gwalior to develop ecosystem.	Seminar	To trained them about Capacity Building, Resource Sharing,	30/09/2022	500
13.	Workshop at village level for sensitization programs for the farmers.	Workshop	To enhance agricultural productivity, sustainability, and livelihoods by providing practical knowledge and skills tailored to the needs of rural farmers	1/10/2022	100
14.	Farmers meeting was conducted in the village of Morena to provide knowledge about seeds.	Workshop	Training programs for farmers on seed aim to enhance their knowledge and skills related to seed selection, production, quality management, and conservation.	20/10/2022	100
15.	Workshop with our incubates to discuss about the schemes.	Workshop	Awareness and Education about the schemes, Entrepreneurship Development, Market Linkages	2/11/2022	10
16.	CAIE team visited KVK Shivpuri on ODOP Day and conducted the workshop on tomato with the group of farmers.	Workshop	Value Addition, Job Creation	4/11/2022	500





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
17.	CAIE participated the Morena TECHNICAL FEST was organised Department of Agriculture, Govt. Of India.	Exhibition	Knowledge sharing about Agribusiness schemes, sustainable business plan.	11-14/11/2022	10000
18.	Two days' workshop was organised for ITM university Agribusiness students. It was focused on student entrepreneurship in agriculture.	Workshop	Business Planning and Management, Market Analysis and Consumer Behavior, Financial Management	23-24/11/2022	100
19.	A workshop was conducted for KVK participants on business opportunities in agriculture for SHGs	Workshop	Sustainable business Development, Understanding Agricultural Business Fundamentals, Developing Entrepreneurial Mind-set	30/11/2022	50
20.	Sensitization workshop conducted at VRG College, Gwalior	Workshop	To equip students with the necessary knowledge, skills, and attitudes to succeed in the agricultural industry from a business perspective	6/12/2022	300
21.	Workshop was conducted for the group of MSW students and participants of NGO.	Workshop	Workshop aims to equip students with the necessary knowledge, skills, and mindset to identify, develop, and	8/12/2022	70



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			manage successful agricultural ventures.		
22.	Gwalior District farmer Awareness and Quiz was conducted at CAIE	Workshop	Major objective are to educate, inform, and empower farmers with knowledge and skills relevant to their agricultural practices, livelihoods, and well-being.	9/12/2022	300
23.	ABV-IIITM, Gwalior conducted hackathon under ATAL Research and Incubation Conclave. Our incubates participated in Idea generation and other competition. Exhibition is placed by our incubates. CAIE got the prize of best idea exhibition and our incubate Clean Coller Pvt. Ltd. won the best innovation start-up prize.	Seminar	The objective of hackathon are foster innovation, entrepreneurship, and collaboration in the agricultural sector	8-10/12/2022	200
24.	MSME Workshop	Workshop	Empowering Farmers, Building Financial Literacy, Encouraging Sustainable Practices for regular income	23/02/2023	100
25.	Seminar on Millets and Collector visit in CAIE	Seminar	The objective of a millets seminar is to	1/3/2023	300





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			raise awareness, facilitate knowledge exchange, and promote the cultivation, consumption, and commercialization of millets.		
26.	Press conference for carnival 2023	Conference	Invite media personals to print and share the CAIE carnival activities.	13/03/2023	50
27.	Workshop cum seminar for Grass Root Professionals (NGO's/SHGS/ EXTENSION WORKERS ) 2023	Workshop	To develop the business skill, leadership skill and other aspects which are important to run an entity	15/03/2023	100
28.	Financial Experts MEET (CAs/Bankers/NBFCS)	Workshop	To exchange the financial knowledge, Risk Management, Market Analysis etc.	16/03/2023	50
29.	Women Entrepreneurship Day	Seminar	Women entrepreneurship initiatives are to empower women economically, promote gender equality, and foster sustainable development.	17/03/2023	120



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
30.	Student Entrepreneurship Day	Seminar	To Promote Entrepreneurship awareness among the students, Fostering Entrepreneurial Skills, Encouraging Innovation, Promoting Sustainable Entrepreneurship	18/03/2023	80
31.	Gwalior INCUBATOR Ecosystem & Social Entrepreneurship Day	Seminar	The objective of activities organized on Entrepreneurship Day is to celebrate entrepreneurship, inspire entrepreneurial action, and create an enabling environment for aspiring and existing entrepreneurs to succeed and make a positive impact on society.	19/03/2023	70
32.	Millet Entrepreneurship Day 2023	Seminar	To Promoting Millet Entrepreneurship through processing, Showcasing Innovative Millet Products, Celebrating Millet Diversity	20/03/2023	100





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			and Culture		
33.	Student Test & Outdoor Activity: Exhibition during International Conference on the blended learning ecosystem, New Delhi 2023	Seminar	The conference aims to advance the field of blended learning, foster collaboration, and promote innovation in teaching and learning practices to meet the diverse needs of students in the digital age.	21/03/2023	20
34.	Outdoor Activity: Exhibition During International Conference on the blended learning ecosystem, New Delhi 2023	Seminar	The conference aims to advance the field of blended learning, foster collaboration, and promote innovation in teaching and learning practices to meet the diverse needs of students in the digital age.	22/03/2023	20
35.	National Conference on Healthy Food 2023	Seminar	The National Conference on Healthy Food aims to advance the conversation on nutrition and public health, promote evidence-based strategies for improving dietary habits,	25/03/2023	180



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			and mobilize stakeholders to create a healthier food environment for all.		
36.	8 <sup>th</sup> International Conference ON, "Recent Advances in Agriculture Animal Husbandry, Sciences & Technology for Sustainable Entrepreneurship" 2023	Seminar	To promote sustainable entrepreneurship in agriculture and animal husbandry by showcasing recent advances in science, technology, and innovation.	26/03/2023	100
37.	8 <sup>th</sup> International Conference ON, "Recent Advances IN Agriculture Animal Husbandry, Sciences & Technology For Sustainable Entrepreneurship" 2023	Seminar	To promote sustainable entrepreneurship in agriculture and animal husbandry by showcasing recent advances in science, technology, and innovation.	27/03/2023	100
38.	8 <sup>th</sup> International Conference ON, "Recent Advances IN Agriculture Animal Husbandry, Sciences & Technology For Sustainable Entrepreneurship" 2023	Seminar	To promote sustainable entrepreneurship in agriculture and animal husbandry by showcasing recent advances in science, technology, and innovation.	28/03/2023	200
39.	Industry Conclave Panel Talk Buyer Seller Meet & CAIE Agribusiness Carnival Startup Awards	Seminar	With the help of Buyer Seller Meet is to facilitate business	29/03/2023	150





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			interactions, promote trade and commerce, and create opportunities for buyers and sellers to connect, collaborate, and transact in a conducive and productive environment.		
40.	INTELLECTUAL PROPERTY SEMINAR at CAIE	Seminar	To empower participants with knowledge, tools, and resources to navigate the complex landscape of intellectual property rights and make informed decisions to protect and maximize the value of their intellectual assets.	26/04/2023	60
41.	One day awareness/training program about NHB Schemes at the Centre for Agribusiness incubation and Entrepreneurship, RVSKVV, Gwalior.		To make awareness about NHB schemes, rules and their documentation.	25/05/2023	60
42.	Training program for AVBIIITM students		Training aims to equip students with the necessary knowledge,	26/05/2023	50



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			skills, and mindset to identify, develop, and manage successful agricultural ventures.		
43.	FPO REUNITE (GWALIOR CLUSTER) at CAIE	Workshop	To share the knowledge and experience regarding the respective working area.	3/7/2023	30
44.	Farmer orientation workshop program	Workshop	To develop the skills and make aware about the government schemes. Information about the agri-startups and Farmer Producer organization.	20/07/2023	100
45.	INDUSTRY ENTREPREUENER MEET	Workshop	To facilitate collaboration, networking, knowledge sharing, and support among entrepreneurs and industry stakeholders, with the ultimate goal of driving economic growth, and creating value for society.	26/07/2023	50
46.	Banker's MEET at CAIE	Workshop	Provide information regarding	2/8/2023	35





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			financial inclusion, empower farmers with access to financial services and resources, build their financial capabilities, and support their efforts to improve agricultural productivity, profitability, and livelihoods.		
47.	AGRI-CONNECT INDUSTRIAL CONCALVE CUM BRAIN STORMING SESSION- Day1	Seminar	To promote collaboration, innovation, and entrepreneurship in agriculture	23/08/2023	700
48.	AGRI-CONNECT INDUSTRIAL CONCALVE CUM BRAIN STORMING SESSION Day	Seminar	To promote collaboration, innovation, and entrepreneurship in agriculture	24/08/2023	700
49.	INCUBATEE INVESTOR MEETING IN CAIE	Seminar	To facilitate investment opportunities, support entrepreneurship and innovation, drive economic growth, and create value for both investors and entrepreneurs within the investment ecosystem.	25/08/2023	50
50.	CAIE participation at	Seminar	To demonstrate	27/08/2023	2000



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
	RVSKVV seminar		the agribusiness opportunities for Agricultural students as a career option. Information regarding the government schemes.		
51.	CAIE EXHIBITION (RVSKVV) at VIKRANT UNIVERSITY	EXHIBITION	With the help of stall, demonstrate the agribusiness opportunities for Agricultural students as a career option.	4/10/2023	5000
52.	KVK workshop at CAIE	Workshop	To provide information about the agribusiness related stratus at village level.	27/10/2023	50
53.	WORLD FOOD EXHIBITION, New Delhi	EXHIBITION	To demonstrate the incubates products with the help of stall. Also provide information about the new agribusiness startups.	03-05/11/2023	
54.	World soil day	Seminar	To organized a rally programme. It helps to make awareness about the soil health.	5/12/2023	500
55.	AMITY UNIVERSITY STUDENT ORIENTATION PROGRAM at CAIE GWALIOR	Seminar	To Develop Entrepreneurial Mindset, Build Business Skills, leadership skill,	15/12/2023	60'





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			risk taking capacity.		
56.	ABVIIIITM EXHIBITION BY CAIE INCUBATEE (DAY1)	EXHIBITION	To demonstrate the Incubates products with the help of stall. Help helps to make awareness about the products and its quality.	18/12/2023	200
57.	ABVIIIITM EXHIBITION BY CAIE INCUBATEE (DAY2)	EXHIBITION	To demonstrate the Incubates products with the help of stall. Help helps to make awareness about the products and its quality.	19/12/2023	200
58.	ONE WORLD ONE HEALTH PROGRAM AT RVSKVV (DAY 1)	EXHIBITION	To make incubates products demonstration through stall. Also provide information of government schemes related to agribusiness startups.	28/12/2023	5000
59.	ONE WORLD ONE HEALTH PROGRAM AT RVSKVV (DAY 2)	EXHIBITION	To make incubates products demonstration through stall. Also provide information of government schemes related to agribusiness startups.	29/12/2023	5000



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
60.	ACABC PROGRAM ORGANIZED BY NABARD AT CAIE GWALIOR	Workshop	To provide training regarding the ACABC scheme of NABARD. How ACABC help to participants to start an agri venture.	30/12/2023	60
61.	DRONE DEMONSTRATION AT CAIE GWALIOR	EXHIBITION	To demonstrate the live agricultural drone spray activity for the farmers and students.	8/1/2024	100
62.	GWALIOR FAIR CAIE GWALIOR	EXHIBITION	To provide the platform where CAIE incubates demonstration and sell their products.	16/01/2024	5000
63.	CAPACITY BUILDING PROGRAM AT CAIE GWALIOR	Workshop	To provide information regarding the incubates activities, their working status and success.	29/01/2024	50
64.	MSME Meeting	Workshop	To promote the agri startups and awareness about the government schemes for agri entrepreneurship	1/2/2024	70
65.	TECHNICAL FEST 2024 RVSKVV, GWALIOR	EXHIBITION	Drone demonstration, Mushroom live demonstration, Government schemes, Agri	03-06/02/2024	5000





## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			Entrepreneurship awareness.		
66.	TECHNICAL FEST 2024 KENDRIYA KRISHI VISHWAVIDHYALAYA JHANSI	EXHIBITION	To demonstrate the CAIE activities and support provided for agri based startups and make awareness about the agri entrepreneurship.	08-10/02/2024	3000
67.	Capacity building for FPO program	Workshop	To guide the FPO Board of directors about skill development, time management, financial management.	16/02/2024	10
68.	ONE DAY INCUBATEE WORKSHOP AT CAIE GWALIOR	WORKSHOP	To understand the major challenges faced by the incubates and provide them the appropriate solutions	29/02/2024	45
69.	Post HARVESTING OF MUSTARD PROGRAM ORGANIZED BY CAIE GWALIOR	WORKSHOP	To guide farmers about the scientific mustard processing and its value addition to make more profitable crop.	4/3/2024	60
70.	STARTUP MAHAKUMBH PRAGATI MAIDAN DELHI PARTICIPATED	EXHIBITION	To provide a platform where our incubates can	18/03/2024	10000



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
	BY CAIE INCUBATEES		demonstrate and sell their products in this event		
71.	One day CAIE Incubates workshop	workshop	To understand the major challenges faced by the incubates and provide them the appropriate solutions.	5/4/2024	35
72.	Mr. Anandam Visit at CAIE	visit	With the help of this visit CAIE seeking consultancy regarding the central processing line. His guidance is helpful in machine installation and civil work for central processing line.	08/04/2024	7
73.	Mr.Rajiv Kumar, MSME Director visited in CAIE	visit	The main objective of this visit is to provide information regarding the CAIE activities and infrastructure facilities to organize different type of training and capacity building programme.	15/05/2024	10
74.	Mr.Jindal visited in CAIE	visit	To understand about CAIE	17/05/2024	9



## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			activities and support provided through various Agribusiness schemes.		
75.	CAIE team organized "Agri Entrepreneurship Training and Awareness Programme" at Krishi Vigyan Kendra, Ujjain, Madhya Pradesh.	Workshop	The main objective of the programme was to sensitize participants about opportunities in agribusiness and transfer of technology.	24/05/2024	40
76.	CAIE team organized "Agri Entrepreneurship Training and Awareness Programme" at Vikram University, Ujjain, Madhya Pradesh.	Workshop	The main objective of the programme was to sensitize the students about Agri Entrepreneurship as career option.	24/05/2024	70
77.	Mr. Manjeet Singh & Mr. Bhanu Prakash Mishra Visit in CAIE	Visit	To inform about CAIE activities and support provided through various Agribusiness schemes.	31.05.2024	10
78.	Drone Spray Activity at Mehgaon, Bind	Programme	To demonstrate the Agricultural drone spraying the pesticide in moong crop.	03.06.2024	50
79.	CAIE organized a Cleanliness Drive at office surrounding on "World Environment Day"	Cleanliness Drive	To make awareness about cleanliness in the society with the focus on "halting and	05.06.2024	8





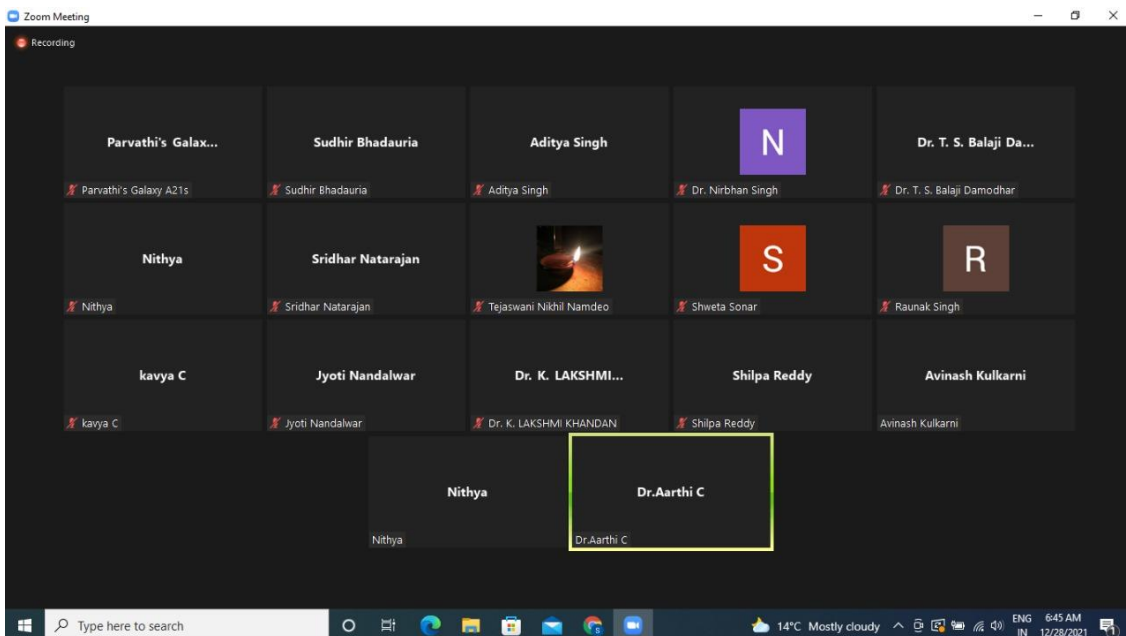
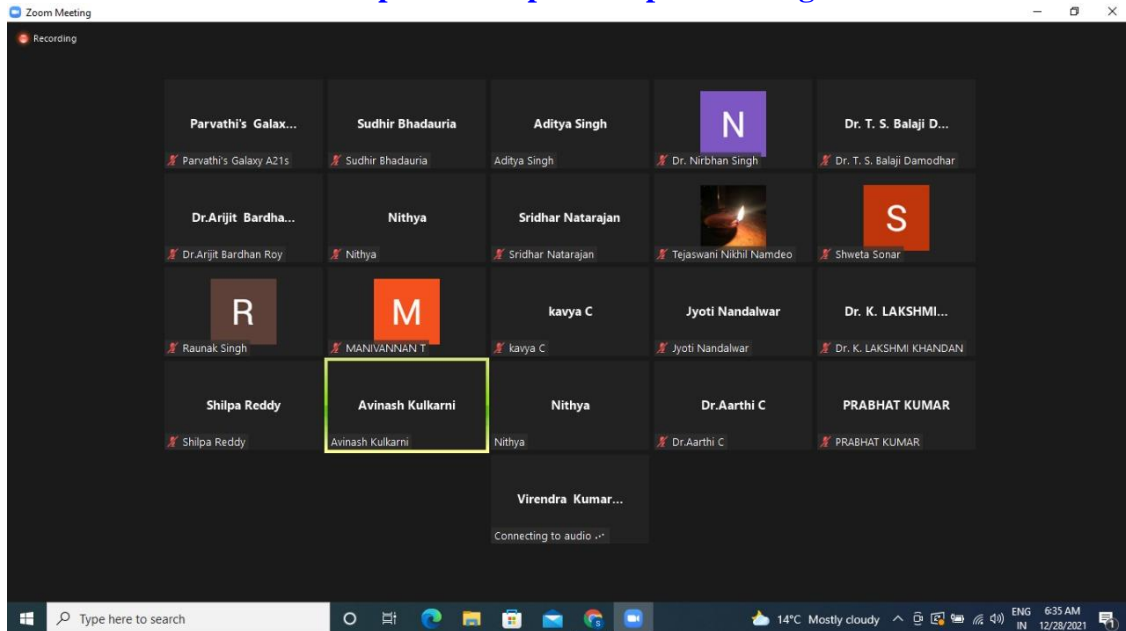
## Glimpses of CAIE

S. No	Name of Activities/ Conducted/Participated	Event	Objective	Date	No. of participants
			reversing land degradation, building drought resilience, and preventing desertification”		



## Activities conducted by CAIE, RVSKVV, Gwalior

### Entrepreneurship Development in Agriculture





Glimpses of CAIE

CAIE-students outreach ‘Agri Tourism based Entrepreneurship for students’



Pedal Operated Herbal Mosquito Repellent Coil Making Machine



CAIE-students outreach “Management skills for career development of students and entrepreneurs”







**Sensitization workshop at Army Public School, Morar, Gwalior  
under Atal Tinkering Labs program**



**Sensitization workshop was conducted by at Kendriya Vidyalaya-1, Gwalior,  
under the Atal Tinkering Labs program**





## Sensitization workshop with Army Welfare Society, Morar Cantt under women entrepreneurship







## Sensitization workshop with ITM University students visited CAIE under student entrepreneurship



## National Seed Congress







### FPO meeting with NABARD on potato value chain



### Agripreneur workshop with NAHEP for developing ecosystem of agribusiness among students





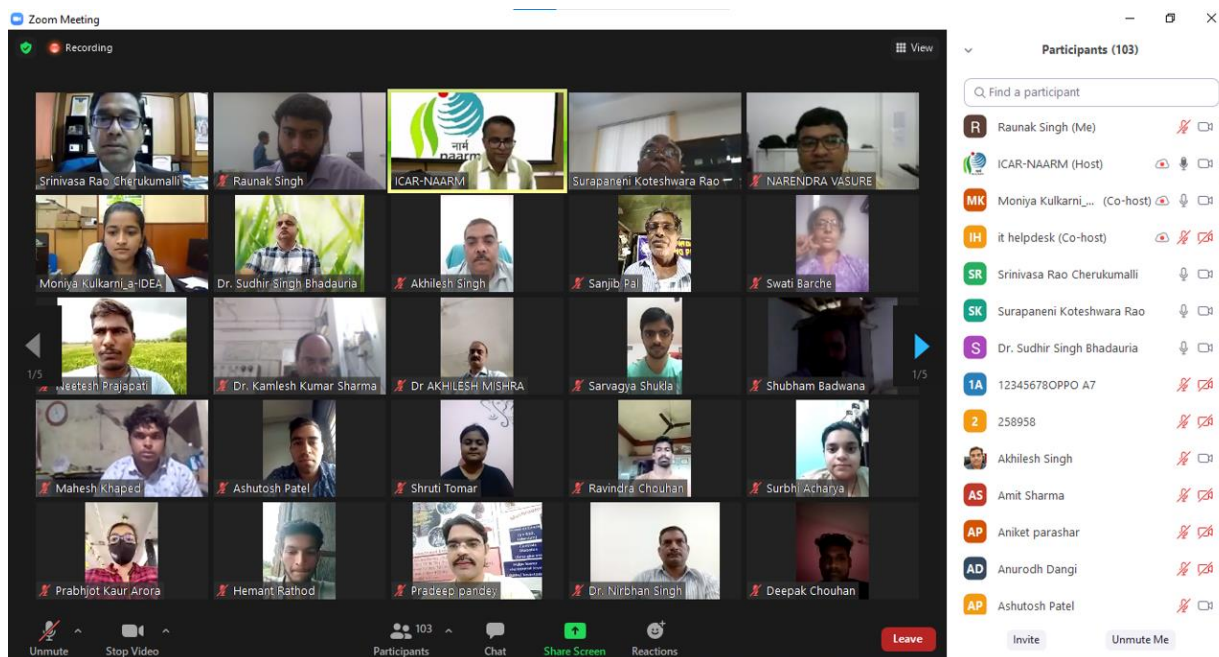
**Training program on “Entrepreneurship Development in Agriculture” in  
association with ICAR-NAARM  
on entrepreneur skill and opportunities in agribusiness**







## Glimpses of CAIE



### Awareness Programme on Entrepreneurship Education for Students of RVSKVV, Gwalior @Bharat Ka Amrut Mahotsav

20<sup>th</sup> September, 2021, Hyderabad

The a-IDEA, Technology Business Incubator of ICAR-National Academy of Agricultural Research Management, Hyderabad organized a one-day *Sensitization-cum-Awareness Programme* on "Entrepreneurship Education in Agriculture and Allied Sectors for Students of RVSKVV, Gwalior" to encourage them for Agri-preneurship today.



In his address, the Chief Guest, Dr. Surapaneni Koteswara Rao, Vice-Chancellor, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior, Madhya Pradesh urged the students for reorienting their mind-sets in sync with the Prime Ministers' Start-Up Programme.

Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM, Hyderabad highlighted the importance of bringing sustainable value for the crops grown by the Indian farmers in the global scenario. The biggest challenges faced by the farmers in marketing and price fluctuation and Agri-preneurship promotion that provide the solution for stability of prices was also underlined by Dr. Rao.

Earlier, in his welcome address, Dr. N.A. Vijay Avinashilingam, Additional C.E.O., a-IDEA, ICAR-NAARM, Hyderabad outlined the importance of Agri Start-Ups and the process of Incubation.

### A Start-up meet with Smart City Group for all incubation centres of Gwalior to develop Entrepreneurship Ecosystem





**Workshop for sensitization of farmers towards entrepreneurship and skill development**



**Seed awareness campaign with Farmers at Morena**





Workshop with our incubates to discuss various beneficial schemes







### Workshop for Farmers on Tomato on ODOP Day at KVK Shivpuri







### Two days' workshop for ITM university Agribusiness students



### Workshop on business opportunities in agriculture for SHGs







Sensitization workshop conducted at VRG College, Gwalior







## Glimpses of CAIE



## Workshop for MSW students and NGOs







Glimpses of CAIE



farmer Awareness and Quiz at Gwalior





### MSME Workshop



Press conference for Agri business carnival 2023







**Workshop cum seminar for Grass Root Professionals (NGO's/SHGS/ Extension Workers)**





Glimpses of CAIE

## Financial Experts MEET (Chartered Accountants/Bankers/NBFCS) 2023



## Women Entrepreneurship Day







### Student Entrepreneurship Day







### Millet Entrepreneurship Day 2023







### Student Test & Outdoor Activity: Exhibition during International Conference on the blended learning ecosystem, New Delhi



### Outdoor Activity: Exhibition During International Conference on the blended learning ecosystem, New Delhi







### National Conference On Healthy Food



### 8<sup>th</sup> International Conference on “Recent Advances in Agriculture, Animal Husbandry, Science & Technology for Sustainable Entrepreneurship” 2023







Glimpses of CAIE

### Industry Conclave: Panel Talk, Buyer Seller Meet & CAIE Agribusiness Carnival Startup Awards







Glimpses of CAIE

## Seminar on Intellectual Property Rights



## One day awareness/training program on NHB Schemes related to Agribusiness incubation and Entrepreneurship







## Glimpses of CAIE



**Training program for AVB IITM students**





## Glimpses of CAIE



## FPO REUNITE (GWALIOR CLUSTER)





### Farmer orientation workshop at KVK-Gwalior







Glimpses of CAIE

## Industry Entrepreneur Meet



## Banker's MEET







CAIE participation in RVSKVV seminar







Glimpses of CAIE

### CAIE –RVSKVV GWALIOR EXHIBITION AT VIKRANT UNIVERSITY







## Glimpses of CAIE

### KVK workshop at CAIE,RVSKVV, Gwalior



### World Food India Exhibition CAIE-RVSKVV Gwalior at New Delhi







Glimpses of CAIE

### World soil day Rally



### Amity University Student Orientation Program CAIE,RVSKVV, Gwalior







## Glimpses of CAIE



## One World One Health Program at RVSKVV, Gwalior







Glimpses of CAIE

### Workshop Organized by NABARD



### Drone Demonstration in CAIE, RVSKVV, Gwalior







## Glimpses of CAIE



## TECHNICAL FEST 2024, RVSKVV, Gwalior





## Glimpses of CAIE

### Capacity building for FPO program at CAIE, RVSKVV, Gwalior



### ONE DAY INCUBATEE WORKSHOP AT CAIE, RVSKVV, Gwalior







## Glimpses of CAIE



### ONE DAY INCUBATEE WORKSHOP at Ujjain, Madhya Pradesh.





Glimpses of CAIE





## Details of Incubates Working on Products Based on Indigenous Technical Knowledge (ITK)

S. No.	Name of Organization	Key Person	Major Products	Support Provided by CAIE
1	Omkar Life Care India Private Limited, Gwalior, Madhya Pradesh	Dr. H S Goswami	<ul style="list-style-type: none"> <li>• Mushroom production</li> <li>• Ayurvedic products</li> <li>• Cosmetic products</li> </ul>	<ul style="list-style-type: none"> <li>• Exhibition support</li> <li>• Support in PMFME Scheme</li> <li>• Marketing linkage</li> <li>• Branding support</li> <li>• DPR support</li> </ul>
2	Syamsidha Foods, Gwalior, Madhya Pradesh	Mrs. Mahima Tare	<ul style="list-style-type: none"> <li>• Homemade pickles</li> <li>• Papad, chutney, Sweets, Laddu, chips, badi etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Branding and packaging support</li> <li>• Connect with PMFME Scheme</li> <li>• Market linkage</li> </ul>
3	Gokriti Cow Dung Products, Gwalior, Madhya Pradesh	Mrs. Neelam Garg	<ul style="list-style-type: none"> <li>• Manufacturing cow dung products such as home décor items, designing shield Gaukashth etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Exhibition support</li> <li>• Market linkage</li> </ul>
4	Kamdhenu Enterprises, Gwalior, Madhya Pradesh	Mr. Gopal Jha	<ul style="list-style-type: none"> <li>• Manufacturing cow dung products such as home décor items, designing shield, gaukashtha products etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Exhibition support</li> <li>• Market linkage</li> </ul>
5	Maha Maya Swa Sahayata Samooh, Gwalior, Madhya Pradesh	Mr. Shubham	<ul style="list-style-type: none"> <li>• A2 Ghee with traditional method</li> <li>• Agarbatti production</li> </ul>	<ul style="list-style-type: none"> <li>• Branding Packaging</li> <li>• Exhibition support</li> <li>• Market linkage</li> <li>• Support in PMFME</li> </ul>

			<ul style="list-style-type: none"> <li>• Vermi-compost production</li> </ul>	Scheme
6	Vindhyanchal Farmer Producer Company Limited, Gwalior, Madhya Pradesh	Mr. Devendra Pratap Singh	<ul style="list-style-type: none"> <li>• Vermi-compost production at large scale</li> <li>• Trading of wheat and mustard</li> </ul>	<ul style="list-style-type: none"> <li>• Market Linkage</li> <li>• Standard packaging help</li> </ul>
7	Khemraj Singh Tomar, Gwalior, Madhya Pradesh	Mr. Khemraj Singh Tomar	<ul style="list-style-type: none"> <li>• Vermi-compost production at large scale</li> </ul>	<ul style="list-style-type: none"> <li>• Market Linkage</li> <li>• Branding help</li> <li>• Connected by National Horticulture Board Scheme</li> </ul>
8	Dabra Jaivik Farmer Producer Company Limited, Tekanpur, Madhya Pradesh	Mr. Santosh Patel	<ul style="list-style-type: none"> <li>• Vermi-compost production</li> <li>• Trading of wheat and mustard</li> </ul>	<ul style="list-style-type: none"> <li>• Branding support</li> <li>• Market linkage</li> </ul>



1. OMKAR LIFE CARE INDIA PRIVATE LIMITED, GWALIOR, MADHYA PRADESH



## 2. SYAMSIDHA FOODS, GWALIOR, MADHYA PRADESH



## 3. GOKRITI COW DUNG PRODUCTS, GWALIOR, MADHYA PRADESH





**4. KAMDHENU ENTERPRISES, GWALIOR, MADHYA PRADESH**





**5. MAHA MAYA SWA SAHAYATA SAMOOH, GWALIOR, MADHYA PRADESH**

**ISSAI** 21423570001523

BEST BEFORE 9 MONTHS FROM THE DATE OF PACKAGING

**Nutritional Information**

Parameter	Results
Energy	896.40 kal
Fat	896.40 kal
Saturated Fat	62.75 gm
Protein	0.0
Sugar	0.0
Calcium	0.0
Iron	0.0472 mg
Cholesterol	182.8 mg
Sodium	1.83 mg
Vitamin A	936.6 U
Trans Fat	1.56 gm

# देशी गौघृत

MADE WITH ONLY ORGANIC COW MILK THAT COMES STRAIGHT FROM OUR FARM. COW GHEE IS CAREFULLY PREPARED. EACH COMPONENT IS PREPARED ON THE SAME DAY TO ENSURE FRESHNESS AND QUALITY.





## A2 COW GHEE



**NET WEIGHT**  
**500 g**

**BILONA HAND CHURNED GHEE**

HAND MADE WITH LOVE

KEEP THE PACK AWAY FROM DIRECT SUNLIGHT. KEEP AWAY FROM MOISTURE. CHECK THE SEAL INTACT. SHAKE WELL BEFORE USE.

MRP Rs.:  
(Inclusive of all taxes)  
Batch No:  
Packed on:

MANUFACTURED & MARKETED BY  
MAHA MAYA SWA SAHAYATA SAMOOH,  
GWALIOR, MADHYA PRADESH

SUPPORTED BY  
CENTRE FOR AGRIBUSINESS INCUBATION  
AND ENTREPRENEURSHIP, GWALIOR



**6. VINDHYANCHAL FARMER PRODUCER COMPANY LIMITED, GWALIOR, MADHYA PRADESH**



**7. KHEMRAJ SINGH TOMAR, GWALIOR, MADHYA PRADESH**



8. DABRA JAIVIK FARMERPRODUCER COMPANY LIMITED, TEKANPUR, MADHYA PRADESH





# Documentation and Validation of Indigenous Technical Knowledge (ITKs) of dairy farming in Madhya Pradesh: A study of Gwalior division

THESIS



*Submitted to the*

**Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya**

In partial fulfilment of the requirements for the degree of

**DOCTOR OF PHILOSOPHY**

In

**AGRICULTURE**

**AGRICULTURAL EXTENSION AND COMMUNICATION**

*by*

**REENA RAWAT**

Department of Agricultural Extension and Communication

**Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya**

College of Agriculture, Gwalior (M.P.)

2020

## **Chapter-VI**

### **SUMMARY, CONCLUSION AND SUGGESTIONS FOR FURTHER WORK**

#### **6.1 Summary**

India has sustained the largest number of bovine (192.5 million) and buffaloes (109.9 million) and the first position in milk production with 187.7 Million tones within the India arena. In M.P. the all-out milk creation was recorded 7514000 tons in the year 2010-2011. Madhya Pradesh has six positions of profoundly milk creation states in India. The state represents more than six per cent share in the absolute milk creation in the nation. M.P. has 7 dairy agreeable that represents most extreme measure of milk acquisition in the state. These dairy agreeable works under Madhya Pradesh State Cooperative Dairy Federation Limited which is associated with acquisition, handling, selling and quality control of dairy items in the state. The production of milk in M.P. state is 8.838 million ton. Milk production every day for cows of neighborhood breed is 1.20, for crossbred dairy animals are 5.91 and for bison are 3.00. In Gwalior division of Madhya Pradesh have third position in milk creating division. The absolute milk creation of Gwalior division is 1573.31 thousand ton the fundamental wellspring of milk creation is cow and buffalo.

After crawling over all of the above information, it was felt there was a need for documenting and validating ITK of dairy farming. Thus, the study “Documentation and Validation of Indigenous Technical Knowledge (ITKs) of dairy farming in Madhya Pradesh: A study of Gwalior division.” was deliberate and undertaken with the subsequent specific objectives:

- 1) To study the aspects of dairy farmers.
- 2) To assess the relationship between aspects of dairy farmers and their annual income.
- 3) To detect and documentation of indigenous Technical Knowledge (ITKs) of dairy farming.
- 4) To find out the farmers’ rationale behind the use of these ITKs.
- 5) To validate the selected ITKs of dairy farming.



- 6) To know the constraints encountered by dairy farmers while applying indigenous technical knowledge and suggestion for enhancement of the popularization of indigenous technical knowledge.

Multistage sampling was employed for constructing sampling plan of the study. Among the five districts of Gwalior division Shivpuri, Gwalior and Guna districts were selected. These districts stand first, second and third position in milk production. Among the districts of Gwalior division respectively the milk production in Shivpuri, Gwalior and Guna were 496.14, 399.75 and 277.74 thousand tonnes, respectively. This clearly indicates the important of dairy farming in the area. Among the three selected districts of Gwalior division their and eight, four and five blocks in Shivpuri, Gwalior and Guna, respectively. A separate list of blocks of each selected districts were prepared and with the help of officials of respective districts, three blocks (two blocks having highest dairy farmer and one block having lowest dairy farmer) was identify for the selection of blocks. In the last stage of sampling process the block wise list of dairy farmers was prepared for each selected blocks. Overall 300 dairy farmers were selected as respondents with the help of simple random sampling without replacement under proportional scheme. The data were collected regarding the profile of the dairy farmers with the help of a structured interview schedule constructed according to the objectives and variables incorporating all the items on which information was required. Documentation of ITK of animal husbandry was done through interaction and discussion with the farmers of the study area. Validation of Indigenous technical knowledge (ITK) was done through a group of researchers for their relevance in scientific scenario. The selected technologies which the farmers concern mostly were sent for scrutiny. These were circulated to 80 scientists for their responses on 5-point validity continuum and the dairy farmers were scored 5, 4, 3, 2 and 1 for strongly agree, agree, undecided, disagree and strongly disagree respectively. Questionnaires were sent to the researchers working in the following institutions: Veterinary dispensaries, Veterinary hospitals, veterinary department, agriculture office and Krishi Vigyan Kendra etc. were validated on the basis of mean  $\pm 1$  SD. Data were collected regarding the constraints and suggestion perceived by the dairy farmers.

Constraints encountered by dairy farmers while applying indigenous technical knowledge and suggestion for enhancement of the popularization of indigenous technical knowledge. It was ascertained by asking direct questions to the dairy farmers and thereafter ranking was done on the basis of No. of dairy farmers or percentages that help to identify most important constraints and suggestion perceived by the dairy farmers. Information gathered was qualitative or quantitative. The quantitative data were inferred in terms of percentage and qualitative data were tabulated on the basis of categorization methods. After tabulation, percentage, mean, standard deviation and Correlation coefficient were carried out.

### **Aspects of dairy farmers**

- (i) Widely held of dairy farmers (62%) comes in middle age group.
- (ii) Extreme numbers of the dairy farmers (53.33%) imminent in middle class.
- (iii) Extreme numbers of the dairy farmers (52%) come in secondary education.
- (iv) Extreme numbers of the dairy farmers (56.67%) come in small farmers.
- (v) Widely held of the dairy farmers (66.66%) comes in medium herd size with 188 cows, 504 buffalos and 6 goats.
- (vi) Widely held of the dairy farmers (65.34%) comes in medium milk production with cows 752 liters/day, buffalo 3528 liter/day and goats 12 liters/day.
- (vii) Widely held of the dairy farmers (72.33%) comes in medium milk consumption with cows 180 liters/year, buffalos 705 liters/year and goats 12 liters/year.
- (viii) Widely held of the dairy farmers (60.34%) comes in high social participation.
- (ix) Widely held of the dairy farmers (62%) comes in medium level of extension contact.



- (x) Widely held of the dairy farmers (57.67%) comes in medium level of mass media exposure.
- (xi) Widely held of the dairy farmers (62%) come in medium category of annual income through dairy farming while, 63.67 per cent of the dairy farmers come in medium category of overall annual income.

**Assess the relationship between aspects of dairy farmers and their annual income**

For verdict out the nature of relationship between the aspects of dairy farmers and their annual income, the correlation coefficient was computed and findings are furnished as under.

- **Assess the relationship between aspects of dairy farmers and their annual income through dairy farming**

Spectacle that the independent variables viz., class (0.172), education (0.204), herd size (0.140), milk production (0.152), extension contact (0.137), and mass media exposure (0.134) were positive and highly significant related with annual income through dairy farming of the dairy farmers at 0.01 level of significance while, social participation (0.101) was positively and land ownership (-0.100) was negatively significant related with annual income through dairy farming of the dairy farmers at 0.05 level of significance. At the end of age (0.079) and milk consumption (-0.067) were found to be not significant.

- **Assess the relationship between aspects of dairy farmers and their overall annual income**

Spectacle that the independent variables viz., class (0.150), education (0.222), milk production (0.147), extension contact (0.130), and mass media exposure (0.145) were positive and highly significant related with overall annual income of the dairy farmers at 0.01 level of significance while, herd size (0.117), and social participation (0.096) were positively significant related with overall annual income of the dairy farmers at 0.05 level of significance. At the end of age (0.076), land ownership (-0.075) and milk consumption (-0.079) were found to be not significant.

## Highly effective (> 3.50 Mean score) valid documentation of ITKs:

### (A) Breeding

#### To induce heat

- Around 250 gm. jaggery and 150 gm. ghee were mixed in wheat flour and then chapatti of this mixture was feed to animal once a day to induce heat in animal.
- Prajana H.S. 3 herbal capsules per cow/ buffalo with jaggery or grains should be again after 24 hours.
- After boiling fenugreek seeds (250 gm.) + jaggery (500 gm.) in two liters of water, 250 gm. mustard oil is added and given in the evening constantly for 4 days.

#### Removal of placenta

- 50-60 gram of replanta powder should be given to cow / buffalo. Double dose should be given immediately after calving and continue to be fed every 6 hours till the animal puts the placenta. Even after 2 to 3 days, it should be given to increase fertility.

### (B) Feeding

- 1 Kg. Berseem (*Trifolium alexandrinum*), 500 gram maize (*Zea mays*), 500 gram bajra (*Pennisetum glaucum*) and 50 ml sesame oil (*Sesamum indicum*) was fed to animal one time a day.
- Mustard cake (250-500 gram) is drenched overnight and the animals are fed with gram powder in the morning.
- 50 gram soybean (*Glycine max*), wheat (*Triticum aestivum*) and cowpea (*Vigna unguiculata*) are appropriately mixed and given to animals with the normal concentrated feeds or as a solution after boiling these ingredients in water.
- 4 kg cotton seeds, 2 kg kulthi and 2 kg bengal gram are soaked, crushed and given to the animals.



## **(C) Health care**

### **General debilitation, indigestion and lack of appetite**

- Liquid extracts of Ajwain (150 grams), black cumin (50 grams), black pepper (30 grams), sesame seeds (50 grams), and cardamom (30 grams) are given to cure digestive problems.

### **Diarrhoea**

- Dhatura Stramonium Seed (Jimsonweed) – 3 gm., arecanut – 20 gm. and white clay – 500 gm. mixed with rice gruel and given two times per day.
- 250 gm. sheera solution (Sugar) in half litre water or 250 gm. khamir solution (yeast) in half litre of water is given to animals two times a day till recovery.

### **Jaundice**

- Turmeric is ground and made into arecanut size and given to animal.

### **Fever and other diseases**

- 50 gm. Gur (Jaggary) + 50g clove (*Syzygium aromaticum*) + 50 gm. Ajwain (*Trachyspermum ammi*) + 50 gm. ginger (*Zingiber officinale*) + 10 pieces of black pepper (*Piper nigrum*) + 50g methi (*Trigonella foenum-graecum*) mixed in 1 liter water and fed to animals once a day till recovery.

### **Lice and Fleas**

- Naphthalene balls are powdered and applied whole body and washed with water. Farmers indicated that this was an effective technique but it causes some kind of blisters.

### **Eyes related diseases**

- Eye should be washed by adding boric acid to warm water.
- 10 mg alum powder should be filtered with cloth and mixed with 10ml rose water and put 2-3 drops in the eyes 3 times a day.

### **Constraints encountered by dairy farmers while applying ITKs**

Farmers have to face many chief problems while doing indigenous treatment, which is described in the decreasing order as follows; ITK takes long time to cure the animal's disease (66.33%), government officials and educated people give less recognition to this knowledge, without ascertaining its importance (60.00%), many herbs that are suitable for the treatment of animals are becoming extinct; hence no attention is paid to their protection (57.66%), many ITKs are becoming extinct due to lack of practice by the younger generation and over-reliance on chemical medicines (54.33%), preparation of medicine is time consuming (50.33%), lack of sufficient number of required plants for treatment and their unavailability, especially in summer(47.66%), ITK is not a complete panacea for maintaining animals (46.66%), farmers not interested in indigenous treatment due to the easy availability of allopathic medicines in the market (44.00%), incompatibility of ITK with modern techniques (38.66%), lack of ability to identify right plants (37%), in the present time, animals have many new diseases for which no traditional treatment is available (35%) and non-availability of certified written documents with ITK (33.33%).

### **Suggestions for enhancement of the promotion of ITKs**

Farmers have to experienced based many solution given for enhancement of the promotion of ITKs, which is described in the decreasing order as follows; veterinarians and researchers should see indigenous technical knowledge as a new opportunity and evaluate it appropriately (87%), strict rules should be implemented to check indiscriminate deforestation to save extinct valuable medicinal plant (84.33), informing local people about publishing their documented innovations in newsletters/journals with the identity of the innovator (79.66), low cost and indigenous technical knowledge technologies should be demonstrated on dairy farmers fields (77%), the dairy farmers practicing indigenous technical knowledge should be made partners with research scientists for evolving appropriate technologies (69.33%), indigenous technical knowledge should be disseminated among farmers with the recommendation of effective suitable dosage (58.66%), knowledge



disseminating system and scientists should make frequent contact with the dairy farmers and rural youth for promoting indigenous technical knowledge practices (50.33%), to promote indigenous technical knowledge, plant materials should be conserved and disseminated among farmers (42.33%), conducting peripatetic group meetings in order to promote awareness and to motivate local people to share ITK (37.33%), using extension teaching methods and aids to educate local people about the significance of ITK and hence documentation (33%), location specific programmes such as peripatetic group meetings, awareness campaign etc. should be organized in order to develop proper interaction among dairy farmers and extension functionaries on location specific need based ITKs (28.33%), literatures on different practices of indigenous technical knowledge should be made available to the dairy farmers from all the source (25.33%), and demonstration of tested ITKs along with frontier technologies should be conducted (21%).

## **6.2 Conclusion**

If we look at here independent variables viz., class, education, herd size, milk production, extension contact, social participation and mass media exposure were associated annual income through dairy farming of the dairy farmers. Any type of program or policy is formulated by the government, NGO or any other institution when we keep these independent variables in mind then the implementation of the policy or programmes becomes more effective as well as helping the farmers to strengthen their economic position. By contrast was land ownership was negatively associated with annual income through dairy farming of the dairy farmers. If we look here, the government and any policymakers should ensure the participation of villagers at every level; this helps in program implementation and also strengthens the economic condition of the farmers. In the case of land ownership, it is seen that as the land gets reduced to the farmer, his interest in animal husbandry increases as he gets additional income through animal husbandry. Due to less land, it is unable to take crop in more area. Government should pay attention while making policies that more focus should be placed on marginal and small farmers if you do so, our project is successful. At the end of age and milk consumption were found to be not significant.



Glimpses of ATIC

**Awareness  
Building in  
Indian  
Knowledge  
System  
Glimpses of  
ATIC**





Glimpses of ATIC

## Agricultural Technology Information Centre (ATIC)

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior (M.P)



The Agricultural Technology Information Centre (ATIC) is a 'Single Window' for dissemination of information and support system for various innovative and farm worthy technologies evolved at the University and Agricultural Research System of India in the pursuit of research and development. The University has established Agricultural Technology Information Centre (ATIC) under Directorate of Extension Services, RVSKVV, Gwalior with the financial support of ICAR during the year 2021-22. The centre is mandated to function as a single window system for the supply of technological information/products to the clients i.e. farmers. Moreover, the centre is also linking various units of the university with intermediary users and end users (farmers) in decision-making on adoption of modern agricultural technologies and problem-solving exercise.



## Major Objectives of ATIC

- To provide a single window delivery system for agricultural information as well as products and technologies developed by the University with a view to deliver quality services to the clientele.
- To strengthen the advisory services by adopting a multi-disciplinary approach to help farmers in problem solving and decision making.
- To function as a depository of agricultural information pertaining to farming skills and practices, inputs and agricultural education.
- To offer consultancy services to the different stakeholders.
- To generate financial resources through sales and services and strengthening the sale of RVSKVV products like seeds, planting material, vegetable seeds, value added products etc.
- To provide feedback of the users to the university scientist

## Activities

- ✓ Farm advisory services to the stakeholders
- ✓ Display of prominent agricultural technologies
- ✓ Sale of Technological /Processed and value-added Products
- ✓ Sale of Technological Inputs: Seed and Planting Material
- ✓ Sale of Farmer Friendly Publications
- ✓ Diagnostic Services
- ✓ Feedback to Research/Extension System

## Facilities/ available at ATIC

S. No	Particulars	Availability (Please ✓ mark)
1.	Training room	✓
2.	Reception counter	✓
3.	Exhibition/technology display room	✓
4.	Touch screen Kiosk	<b>Not Available</b>
5.	Cafeteria	✓
6.	Sales counter	✓
7.	Farmer's visit/feedback register	✓
8.	Others (Visitors register, Stock store register, Telephone etc.)	✓





**Major technological services provided for the clients since its establishment  
(2022-23)**

<b>S. No</b>	<b>Purpose of visit</b>	<b>Programme/Participants</b>
1.	Training and awareness programme for the farmers	06/175
2.	Farmers visited	>550
3.	Technological Information	288
4.	Technology Products	278
5.	Diagnostic Services	42
6.	Vegetables Nursery sale	>350 farmers and city people
7.	Exhibition at Different Institutions/Places	06/>2000 visitors
8.	Nursery, processing units value addition etc	>56
9.	Sale of value-added products	>More than 2.5 Lac
10.	Vegetable sale	>Rs 12,000
11.	Vegetable seed kit sale	-
12.	Vermicompost sale	>03 Qt.
13.	Video film on technological aspects	



## PHOTOGRAPHS OF ACTIVITIES

### Farmers Scientist Interaction on ITKs at ATIC, RVSKVV, Gwalior



Farmers visit and sensitization cum training programme on Adoption Horticulture as an Enterprise







### Agriculture Students visited ATIC stall learned about Extension Systems



### Women SHGs visited ATIC stall during Exhibition





## Glimpses of ATIC

### Interaction with students on Innovative agricultural technologies at ATIC



### Training on disease management in Millets at ATIC







### Farmers visited Technology Display of ATIC



### Mushroom Farmers visited ATIC





# Proceedings of IPR Cell



**DIRECTORATE RESEARCH SERVICES**  
**RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA VIDYALAYA,**  
**GWALIOR (M.P.)**

No./DRS/Order/2022/2288

Date: 17/01/2022

**ORDER**

As per the statutes of RVSKVV, Gwalior the Intellectual Property Rights Cell of Vishwa Vidyalaya is hereby constituted consisting of following members for a period of five years from the issuing date of this order.

S.No.	Designation	Name	Authority
1.	Director Research Services	Dr. S.K. Sharma	Chairman
2.	Head, Genetics & Plant Breeding	Dr. M. K. Tripathi	Member
3.	Deputy Director Research	Dr. H.P. Singh	Member
4.	Faculty, Genetics & Plant Breeding	Dr. M. Yasin	Member
5.	Faculty, Genetics & Plant Breeding	Dr. R.S. Sikarwar	Member
6.	Faculty, Economics	Dr. S.C. Srivastav	Member Secretary

The Intellectual Property Rights Cell shall be responsible to the Director Research Services and shall consider the recommendations, practices and matters pertaining to intellectual property rights (IPR) of Vishwa Vidyalaya.

(By the order of Hon'ble Vice Chancellor)

Director Research Services

Date: 17/01/2022

No./DRS/Order/2022/2289

CC for favor of information to :

1. Registrar/Comptroller, RVSKVV, Gwalior
2. Dean Faculty Agriculture, RVSKVV, Gwalior
3. Director Extension Services/Director Instruction, RVSKVV, Gwalior
4. The Dean, College of Agriculture/Horticulture, Gwalior, Indore, Sehore, Khandwa
5. The Dean, College of Horticulture Mandasaur
6. Person concerned.....
7. P.S. to Hon'ble Vice Chancellor, RVSKVV, Gwalior

Director Research Services



## Minutes of IPR Cell Meeting

Meeting Date: December 19, 2022

Meeting Time: 10:00 AM – 12:00 PM

Venue: DRS Meeting Room

### Attendees:

Dr. S.K. Sharma	Chairman
Dr. M. K. Tripathi	Member
Dr. H.P. Singh	Member
Dr. M. Yasin	Member
Dr. R.S. Sikarwar	Member
Dr. S.C. Srivastav	Member
	Secretary

### Agenda:

1. Review and Approval of Previous Meeting Minutes
2. Progress Report on Existing IPR Initiatives
3. Finalization of Policy and Guidelines for the Intellectual Property Rights
4. Discussion on Matters Pertaining to IPR Cell Functions
5. Discussion for the trademark "RAJVIJAY" for products and activities carried out under umbrella of RVSKVV, Gwalior

### Proceedings:

- The meeting was called to order under the chairmanship of Dr. S.K. Sharma.
- The minutes of the previous meeting were presented by Dr. S.C. Srivastav for review. After minor adjustments, the minutes were approved unanimously.
- Dr. M. K. Tripathi provided an overview of the progress made in existing Intellectual Property Rights (IPR) initiatives, key achievements, ongoing projects, and challenges were discussed.
- Dr. S.K. Sharma led the discussion on finalizing the policy and guidelines for Intellectual Property Rights within the institution. It was finalized with incorporation of minor corrections suggested in last meeting and agreed to submit the draft to academic council for the approval.
- The agenda was expanded to include a specific discussion on obtaining a trademark "RAJVIJAY" for products and activities conducted under RVSKVV, Gwalior.
- Dr. S.K. Sharma requested inputs from all members regarding the process and feasibility of acquiring the trademark.
- Dr. M. Yasin suggested consulting legal experts to ensure compliance with trademark laws and regulations.
- Dr. H.P. Singh volunteered to coordinate with legal advisors to initiate the trademark application process.
- The Chairperson summarized the key decisions made during the meeting.
- Action points assigned to respective members in previous meeting were reviewed.
- The meeting was ended with thanks to the chair.

Prepared by  
Member Secretary

Approved By  
Director, Research Services



### IPR Cell Meeting Proceedings

A meeting of the Intellectual Property Right Cell of RVSKVV, Gwalior was held in DRS Meeting Room on July 22, 2022 at 12:00 PM under the chairmanship of Dr. S.K. Sharma, Director Research Services. The following Members of the committee were present during the meet:

#### Attendees:

Dr. S.K. Sharma	Chairman
Dr. M. K. Tripathi	Member
Dr. H.P. Singh	Member
Dr. M. Yasin	Member
Dr. R.S. Sikarwar	Member
Dr. S.C. Srivastav	Member Secretary

#### Agenda:

1. Review and Approval of Previous Meeting Minutes
2. Progress Report on Existing IPR Initiatives
3. Formulation of Policy and Guidelines for the Intellectual Property Rights Cell
4. Discussion on Matters Pertaining to IPR Cell Functions

#### Proceedings:

- The Chairperson called the meeting to order and welcomed all attendees and presented the agendas to the members.
- The minutes of the previous meeting held on April 08, 2022 were reviewed. After minor revisions, the minutes were approved unanimously.
- The Head of Intellectual Property Rights Cell presented a comprehensive report on the current status of IPR initiatives within Vishwa Vidyalaya, key achievements, ongoing projects, and challenges were discussed.
- The Chairperson initiated a discussion on drafting a comprehensive policy and guidelines document for the IPR Cell. The draft was presented by the members to the chairman and a thorough discussion happened and minor revisions suggested to be incorporated in draft.
- It was also decided to take a legal advice for an insight into legal frameworks and best practices to be considered in the policy matter.
- The Chairperson summarized the key decisions made during the meeting.
- Action points assigned to respective members in previous meeting were reviewed.
- The meeting was adjourned by the Chairperson with thanks by the member secretary.

Prepared by  
Member Secretary

Approved By  
Director, Research Services



## Minutes of Meeting

**Meeting Date:** April 08, 2022

**Meeting Time:** 10:00 AM – 11:00 AM

**Venue:** DRS Meeting Room

### Attendees:

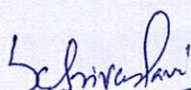
Dr. S.K. Sharma	Chairman
Dr. M. K. Tripathi	Member
Dr. H.P. Singh	Member
Dr. M. Yasin	Member
Dr. R.S. Sikarwar	Member
Dr. S.C. Srivastav	Member Secretary


### Agenda:

1. Introductions and Welcome
2. Purpose of the Meeting
3. Review of Current IPR Initiatives
4. Drafting Policy and Guidelines for IPR Cell
5. Discussion on Matters Pertaining to IPR Cell Functions

### Proceedings:

- The Chairperson initiated the meeting by welcoming all attendees and introducing the purpose of the gathering.
- The Chairperson outlined the primary objective of the meeting, which was to formulate a comprehensive policy and guidelines document for the Intellectual Property Rights (IPR) Cell of Vishwa Vidyalyaya.
- The Head of G&PB department and member of IPR Cell provided an overview of the current initiatives undertaken by the IPR Cell, highlighting achievements, ongoing projects, and areas for improvement.
- The member presented key considerations and best practices for drafting the policy and guidelines document.
- It was agreed to assign members of IPR Cell to collaborate on drafting the document, with a deadline set for the submission of the initial draft.
- Various matters related to the functions of the IPR Cell were discussed, including streamlining patent filing processes, enhancing collaboration with industry partners, organizing training programs for researchers on IPR awareness, and budget allocation for IPR-related activities.
- The Chairperson summarized the key points discussed during the meeting.
- Action points were assigned to respective members, including the drafting of the policy and guidelines document by the subcommittee.
- The meeting was ended with thanks to the chair and members.

  
Prepared by  
Member Secretary

  
Approved By  
Director, Research Services



# Intellectual Property Rights



**RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA  
VIDYALAYA, GWALIOR (M.P.)**



## ***“Intellectual Property Rights”***

RVSKVV is not only focusing on study and academics but we practice for awareness of Intellectual Property Rights for our students and researchers. Intellectual Property Rights (IPR) encompass a set of legal rights granted to individuals or entities over creations of the mind, such as inventions, literary and artistic works, designs, symbols, names, and images used in commerce. These rights provide creators and innovators with exclusive control and protection over their intellectual creations, ensuring that they can benefit from their work financially and legally.

The main types of intellectual property rights include:

1. **Patents:** Grants inventors exclusive rights to their inventions for a certain period, preventing others from making, using, or selling the invention without permission.
2. **Copyrights:** Protect original works of authorship such as literary, Research and artistic creations. Copyright gives creators the exclusive right to reproduce, distribute, perform, and display their works.
3. **Trademarks:** Trademarks are symbols, names, or designs used to identify and distinguish the goods or services of one party from those of others. They protect brand identities and prevent confusion among consumers.
4. **Trade Secrets:** Information that is kept confidential to provide a competitive advantage, such as formulas, processes, or methods. Trade secret protection prevents unauthorized use or disclosure of valuable business information.
5. **Industrial Designs:** Protects the visual design of objects that are industrially produced, such as the shape, configuration, pattern, or ornamentation of a product.

Intellectual property rights play a crucial role in promoting innovation, creativity, and economic growth by inspiring individuals and companies to invest in research and development. They also promote fair competition and enable creators to profit from their efforts, thus contributing to the advancement of society as a whole.





**IPR Workshop on "Digital Marketing for Agricultural Students"**



संस्थागत विकास योजना  
राष्ट्रीय कृषि उच्च शिक्षा परियोजना(राकृउशिप)  
INSTITUTIONAL DEVELOPMENT PLAN  
NATIONAL AGRICULTURAL HIGHER EDUCATION PROJECT(NAHEP)

राजमाता विजयाराजे सिंधिया कृषि विश्वविद्यालय  
राजा पंचम सिंह मार्ग, ग्वालियर-४७४००२ (म.प्र.)

डॉ. संजय शर्मा  
Dr. Sanjay Sharma

**Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya**

Raja Pancham Singh Marg, Gwalior-474002 (M. P.)

प्रधान अन्वेषक  
Principal Investigator

दूरभाष

Phone: 0751-2970517

फैक्स: 0751-2970517

Mob.: 09893946434

Fax: 0751-2970517

ई-मेल: nahep@rvskvv.net,

E-Mail: sanjayjbp.2007@rediffmail.com

Web: www.rvskvv.net

No./PI/NAHEP/2020-21/120

Dated: 04/02/2021

To,

**Dr. Rahul Taneja**

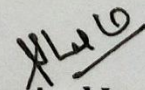
Scientist, Patent information centre,  
Department of Science & technology,  
Govt. of Haryana (India)

**Sub: - Invitation letter to impart two days workshop/training**

The RVSKVV, Gwalior has planned to organize one week on  
"Understanding and Filing Intellectual Property Rights" to be held during  
Feb 17-18, 2021.

We cordially request you to manage this workshop/training. We would  
be grateful if you impart training on "Digital Marketing for Agricultural  
Students". We would be really honoured if you agree for the same and we  
are agree to borne the charges as per your proposal.

Looking forward to hear back from you.

  
Principal Investigator

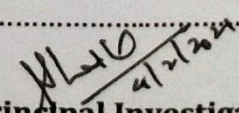
Endt. No./PI/NAHEP/2020-21/121

Dated: 4/02/2021

Copy for information to:-

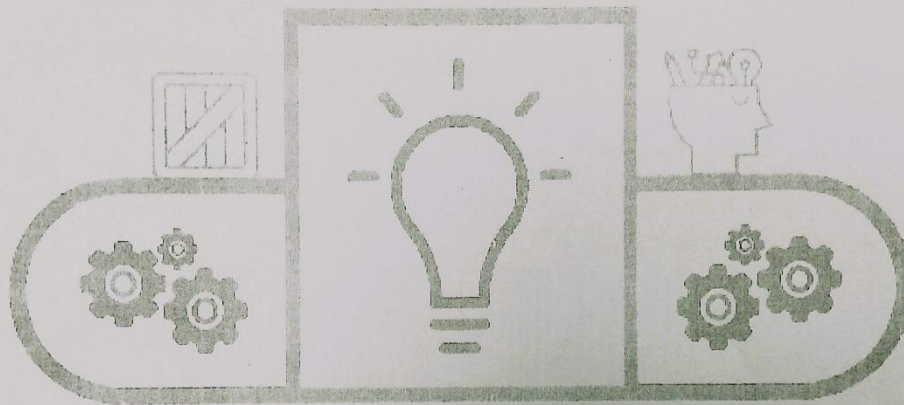
1. DFA, R.V.S.K.V.V., Gwalior.

2. Organizing committee member.....

  
Principal Investigator



**2 Days Workshop  
on  
Understanding and Filing Intellectual Property Rights**



TM

C



**Date: January 25-26, 2021 | Time: 05:00 PM - 07:00 PM**

**Mentor**

**Dr. Rahul Taneja**

Scientist, Patent Information Centre,  
Department of Science & Technology, Government of Haryana.





RVSKVV, GWALIOR (MP)

**Patent of "TIRUNIMA PATLE" by Dr. Sanjay K. Sharma, DRS, RVSKVV**



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

क्रमांक : 022123923  
SL No :



पेटेंट सं. / Patent No. : 429084  
आवेदन सं. / Application No. : 202221026571  
फाइल करने की तारीख / Date of Filing : 07/05/2022  
पेटेंटी / Patentee : 1.TIRUNIMA PATLE 2.DR. SANJAY SHARMA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित "A NATURAL AGRO-PRODUCT COMPRISES NANO-GYPSUM, BIOCHAR & BIOMES AND THE PROCESS THEREOF FOR RECLAMATION OF SALT AFFECTED SOILS" नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2022 के सातवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "A NATURAL AGRO-PRODUCT COMPRISES NANO-GYPSUM, BIOCHAR & BIOMES AND THE PROCESS THEREOF FOR RECLAMATION OF SALT AFFECTED SOILS" as disclosed in the above mentioned application for the term of 20 years from the 7<sup>th</sup> day of May 2022 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 17/04/2023  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मई 2024 के सातवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

**Note.** - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 7<sup>th</sup> day of May 2024 and on the same day in every year thereafter.





6/26/23, 4:17 PM

Intellectual Property India

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Skip to Main Content

(<http://ipindia.nic.in/index.htm>)(<http://ipindia.nic.in/>)

## Patent Search

Invention Title	"A NATURAL AGRO-PRODUCT COMPRISES NANO-GYPSUM, BIOCHAR & BIOMES AND THE PROCESS THEREOF FOR RECLAMATION OF SALT AF SOILS"
Publication Number	26/2022
Publication Date	01/07/2022
Publication Type	INA
Application Number	202221026571
Application Filing Date	07/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A61K0038000000, C10B0053020000, B01J0020200000, C01B0032050000, C10L0005440000

## Inventor

Name	Address	Country	Nationali
TIRUNIMA PATLE	COA, RVSKVV, Gwalior, M.P (474002), India	India	India
DR. SANJAY SHARMA	COA, RVSKVV, Gwalior, M.P (474002), India	India	India
DR. S.K TRIVEDI	COA, RVSKVV, Gwalior, M.P(474002)	India	India
SHRI. SENTHIL KUMAR	RRCAT, Indore, M.P. (451010), India	India	India
MR. NARENDRA CHOUHAN	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, M.P. (451010), India	India	India
DR. AVINASH SINGH TOMAR	COA, RVSKVV, Gwalior, M.P(474002), India	India	India

## Applicant

Name	Address	Country	Nationality
TIRUNIMA PATLE	COA, RVSKVV, Gwalior, M.P (474002), India	India	India
DR. SANJAY SHARMA	COA, RVSKVV, Gwalior, M.P (474002), India	India	India

## Abstract:

Disclosed is a natural agro-product comprises nano-gypsum; biochar & biomes wherein the nano-gypsum is dispersant-free. Also provided is a method of manufacturing t nano-gypsum and the biochar. Fig 1b-c

Complete Specification

## Description: FIELD OF INVENTION

The present invention relates to agriculture. More particularly, the present invention relates to natural agro-product comprises nano-gypsum, biochar & biomes and the process thereof for reclamation of salt affected soils.

## BACKGROUND OF THE INVENTION

The term "agro" means a combining form of field, soil & crop production and agro-products which is synthetic or natural origin is used i) to improve the soil's physical qualities usually its fertility (called as soil conditioner) and ii) to soil or plant tissues to supply plant nutrients (called as fertilizer). Generally, synthetic agro-products includ ammonium nitrate, ammonium phosphate, superphosphate are harmful not only to soil and crop production but also to farmer who is handling these chemicals. Chemically produced plant accumulates toxic chemicals in the human body, which are very dangerous. The deleterious effect of the chemical fertilizers itself starts from manufacturing of these chemicals, whose products and byproducts are some toxic chemicals or gases like NH<sub>4</sub>, CO<sub>2</sub>, CH<sub>4</sub> etc. which causes soil and health hazard (Chan et al. 2019) therefore the synthetic product are avoided. Therefore, in recent past, the focus of the scientist is on natural substance based agro-product without compromising the efficacy.

'Soil salinity' or 'salt affected soils' (herein after referred to as SAS) is major problem as the agriculture is concerned which leads to land degradation and reduced crop production. Current estimated area under SAS (6.74 M ha) comprising of 3.79 M ha sodic and 2.95 M ha saline area) is projected to increase to 16.2 M ha by 2050. An are



**RAJVIJAY Trade Mark**प्रारूप आरजी - 2  
Form RG - 2

भारत सरकार  
Government of India  
व्यापार चिन्ह रजिस्ट्री  
Trade Marks Registry  
व्यापार चिन्ह अधिनियम, 1999  
Trade Marks Act, 1999

क्रमांक  
No. 2293093

व्यापार चिन्ह के रजिस्ट्रीकरण का प्रमाणपत्र, धारा 23 (2), नियम 56 (1)  
Certificate of Registration of Trade Mark, Section 23 (2), Rule 56 (1)

व्यापार चिन्ह संख्या / Trade Mark No. 4133084

दिनांक /Date 30/03/2019

ज. संख्या /J. No. 1903

यह प्रमाणित किया जाता है कि जिस प्रकार चिन्ह की समाकृति इसके साथ संलग्न है, वह .....  
के बारे में दिनांक ..... नाम से रजिस्ट्रीकृत हो चुका है।

Certified that Trade Mark / a representation is annexed hereto, has been registered in the name(s) of:-  
RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA VIDYALAYA, Raja Pancham Singh Marg, Gwalior - 474002, Madhya Pradesh, A Statutory  
Body, (Statutory Body)

In Class 31 Under No. 4133084 as of the date 30 March 2019 in respect of

Agricultural seeds, agriculture, horticulture, forestry products, wheat, grains, cattle foods

**RAJVIJAY**

मेरे निदेश पर आज ..... के ..... मास के ..... वे दिन को इस पर मुद्रा लगायी गई

Sealed at my direction, this 11<sup>th</sup> day of October, 2019*OKraj*व्यापार चिन्ह रजिस्ट्री  
Trade Marks Registry MUMBAIव्यापार चिन्ह रजिस्ट्रार  
Registrar of Trademarks

रजिस्ट्रीकरण अर्पण की तारीख से 10 वर्ष के लिए है और तदोपरान्त यह 10 वर्ष की कालावधि के लिए और शर्तक 10 वर्ष की कालावधि के अवसान पर भी नवीनीकृत किया जा सकता है।

Registration is for 10 years from the date of application and may then be renewed for a period of 10 years and also at the expiration of each period of 10 years.

यह प्रमाणपत्र विधि कार्यवाहियों में प्रयोग के लिए या विदेश में रजिस्ट्रीकरण अधिष्ठापन करने के लिए नहीं है।

This certificate is not for use in legal proceedings or for obtaining Registration abroad.

टिप्पणी - इस व्यापार चिन्ह के स्वामित्व में कोई परिवर्तन होने पर, या कारोबार के मुख्य स्थान के पते में या भारत में तत्काल के लिए पते में परिवर्तन होने पर परिवर्तन के लिए अर्पण तुरत किया जाना चाहिए।

Note: Upon any change of ownership of this Trademark, or change in address, of the principal place of business or address for service in India a request should AT ONCE be made to register the change.





प्रारूप आरजी - 2  
Form RG - 2



भारत सरकार  
Government of India  
व्यापार चिन्ह रजिस्ट्री  
Trade Marks Registry  
व्यापार चिन्ह अधिनियम, 1999  
Trade Marks Act, 1999

क्रमांक  
No. 2293094

व्यापार चिन्ह के रजिस्ट्रीकरण का प्रमाणपत्र, धारा 23 (2), नियम 56 (1)  
*Certificate of Registration of Trade Mark, Section 23 (2), Rule 56 (1)*

व्यापार चिन्ह संख्या / Trade Mark No. 4133085

दिनांक /Date 30/03/2019

ज. संख्या /J. No. 1903

यह प्रमाणित किया जाता है कि जिस प्रकार चिन्ह की समाकृति इसके साथ संलग्न है, वह .....  
के बारे में दिनांक .....

Certified that Trade Mark / a representation is annexed hereto, has been registered in the name(s) of:-  
RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA VIDYALAYA, Raja Pancham Singh Marg, Gwalior - 474002, Madhya Pradesh, A Statutory  
Body, (Statutory Body)

In Class 35 Under No. 4133085 as of the date 30 March 2019 in respect of

Advertising, marketing, sales promotion, services provided by retail stores, wholesale outlets related to Agricultural seeds, agriculture, horticulture, forestry  
products, wheat, grains, cattle foods

RAJVIJAY

मेरे निर्देश पर आज ..... के ..... मास के ..... वे दिन को इस पर मुद्रा लगायी गई

Sealed at my direction, this 11<sup>th</sup> day of October, 2019



OKrajvi

व्यापार चिन्ह रजिस्ट्री  
Trade Marks Registry MUMBAI

व्यापार चिन्ह रजिस्ट्रार  
Registrar of Trademarks

रजिस्ट्रीकरण आवेदन की तारीख से 10 वर्ष के लिए है और तदोपरान्त यह 10 वर्ष की कालावधि के लिए और प्रत्येक 10 वर्ष की कालावधि के अवसान पर भी नवीनीकृत किया जा सकेगा।

Registration is for 10 years from the date of application and may then be renewed for a period of 10 years and also at the expiration of each period of 10 years.

यह प्रमाणपत्र विधि कार्यवाहियों में प्रयोग के लिए या विदेश में रजिस्ट्रीकरण अर्जित करने के लिए नहीं है।

This certificate is not for use in legal proceedings or for obtaining Registration abroad.

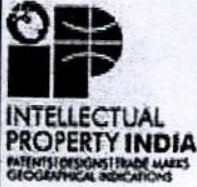
टिप्पणी - इस व्यापार चिन्ह के स्वामित्व में कोई परिवर्तन होने पर, या कारोबार के मुख्य स्थान के पते में या भारत में तमिल के लिए पते में परिवर्तन होने पर परिवर्तन के लिए आवेदन तुरंत किया जाना चाहिए।

Note: Upon any change of ownership of this Trademark, or change in address, of the principal place of business or address for service in India a request should AT ONCE be made to register the change.





RVSKVV, GWALIOR (MP)



भारत सरकार/GOVERNMENT OF INDIA  
व्यापार चिह्न रजिस्ट्री/Trade Marks Registry

बौद्धिक संपदा भवन/Boudhik Sampada Bhawan,  
एस.एम. रोड/S. M. Road,  
एन्टोप हिल/ Antop Hill,  
मुंबई/Mumbai-400037

संख्या: आर एल सी/RLC/248781

दिनांक/Date 11/09/2016 1:27:48  
PM

विषय: पंजीकृत व्यापार चिह्न संख्या 1484851 वर्ग 31

Subject : Renewal of registration of Trade Mark No 1484851 Class 31

आपको यह सूचित किया जाता है कि पंजीकृत व्यापार चिह्न संख्या 1484851 वर्ग 31 का नवीकरण दिनांक 06/09/2016 से अगले 10 वर्षों की अवधि तक किया गया है।

I have to inform you that the Registration of Trade Mark No 1484851 in class 31 has been renewed for a period of Ten years from the 06/09/2016

नवीकरण संबंधी सूचना व्यापार चिह्न पत्रिका संख्या .1763 में विज्ञापित की गई है।

The renewal is being advertised in the Trade Mark Journal No. 1763



भवदीय/Yours faithfully

*KABHOLIS*  
कृते पंजीकार व्यापार चिह्न  
For Registrar of Trade Marks

To,  
IPR LAW ASSOCIATES (MUMBAI)  
GYAN BHAVAN, GROUND FLOOR, 8,  
KUMTHA STREET, BALLARD ESTATE,  
MUMBAI-400 001.

\*This is a computer generated certificate, hence no signature required.



**Copyright by Dr. Sanjay Kumar Sharma, DRS, RVSKVV**

6/4/24, 1:52 PM

Copyright Office

**FORM XIV  
APPLICATION FOR REGISTRATION OF COPYRIGHT  
[SEE RULE 70]**

Diary Number: 17027/2024-CO/A

To

The Registrar of Copyrights,  
Copyright Office,  
Department of Industrial Policy & Promotion,  
Ministry of Commerce and Industry,  
Boudhik Sampada Bhawan,  
Plot No. 32, Sector 14, Dwarka,  
New Delhi-110075  
Email Address: copyright@nic.in  
Telephone No.: (Office) 011-28032496, 08929474194

Sir,

In Accordance with Section 45 of the Copyright Act, 1957 (14 of 1957), I hereby apply for registration of Copyright and request that entries may be made in the Register of Copyrights as in the enclosed Statement of Particulars.

1. I also send herewith duly completed the Statement of further Particulars relating to the work. (for Literary/Dramatic, Musical, Artistic works only) **Artistic works**

2. In accordance with rule 16 of the Copyright Rules, 1958, I have sent by prepaid registered post copies of this letter and of the Statement of Particulars and Statement of Further Particulars to other parties concerned as shown below:

Name of Party	Address of Party	Date of Dispatch
DR.NARENDRA CHOUHAN	AGRICULTURE SCIENCES, SAGE UNIVERSITY, INDORE -452020	
DR. SANJAY KUMAR SHARMA	DRS, RVSKVV GWALIOR, MADHYA PRADESH -474002	
DR. DEEPAK K SINHA	AGRICULTURE SCIENCES, SAGE UNIVERSITY, INDORE -452020	

[See columns 7,11,12, and 13 of the Statement of Particulars and party referred in col.2 (e) of the Statement of Further Particulars.]

3. The prescribed fee has been paid, as per details below: **500/-**

Payment ID	Payment Date	Amount	Bank Name	Payment Mode
352897	28/05/2024	500		

4. Communications on this subject may be addressed to:

**DR.NARENDRA CHOUHAN  
AGRICULTURE SCIENCES, SAGE  
UNIVERSITY, INDORE -452020-  
452020**

5. I hereby declare that to the best of my knowledge and belief, no person, other than to whom a notice has been sent as per paragraph 2 above any claim or interest or dispute to my copyright of this work or its use by me.

6. I hereby verify that the particulars given in this Form and the Statement of Particulars and Statement of Further Particulars are true to the best of my knowledge, belief and information and nothing has been concealed there from.

**List of Enclosures:**

- 2 Copies of Work
- DD/IPO of Rs.500 Per Work
- Authorization from author
- Search Certificate from Trade Mark Office (TM -60)

5. If the application is being filed through attorney, a specific Power of Attorney in original duly signed by the applicant and accepted by the attorney

Place:

Date: **28/05/2024**For : **DR.NARENDRA CHOUHAN**

Proprietor





**Seed Variety by RVSKVV**

1

संचालनालय  
किसान कल्याण तथा कृषि विकास  
मध्यप्रदेश भोपाल



क्रमांक/ई-1-बी/रा.बी.उ.स./2023-24/1586

भोपाल, दिनांक 12/10/2023

“विभिन्न फसलों की नवीनतम विकसित प्रजातियों को म.प्र. राज्य के लिये अनुशंसित करने हेतु राज्य बीज उप समिति की बैठक दिनांक 27.09.2023 का कार्यवाही विवरण”

...\*\*\*...

कृषि, सहकारिता एवं किसान कल्याण विभाग, कृषि एवं किसान कल्याण मंत्रालय, भारत सरकार के आदेश क्र./3-61/2017-एस.डी. IV, दिनांक 19.01.2018 के अनुक्रम में राष्ट्रीय एवं प्रदेश के कृषि विश्वविद्यालयों, कृषि अनुसंधान संस्थानों एवं अन्य निजी संस्थाओं की नवीनतम विकसित प्रजातियों को म.प्र. के लिये अधिसूचित किये जाने हेतु, प्राप्त प्रस्तावों पर चर्चा एवं निर्णय हेतु अपर मुख्य सचिव म.प्र. शासन, किसान कल्याण तथा कृषि विकास विभाग की अध्यक्षता में राज्य बीज उप समिति की बैठक दिनांक 27.09.2023 को वल्लभ भवन भोपाल प्रथम स्थित कक्ष क्रमांक 315 में आयोजित की गई। बैठक में समिति सदस्यों के साथ कृषि विश्वविद्यालय के संचालक अनुसंधान सेवाएं/ अनुसंधान केन्द्रों के विषय विशेषज्ञ / वैज्ञानिक / पादप प्रजनक एवं विभागीय अधिकारी उपस्थित रहे हैं। उपस्थिति पत्रक परिशिष्ट -1 संलग्न है।

इसके अतिरिक्त बैठक में डॉ. मृणाल कुचलान, वरिष्ठ वैज्ञानिक, भारतीय सोयाबीन अनुसंधान संस्थान, इन्दौर, डॉ. पी. के. कटियार, भारतीय दलहन अनुसंधान संस्थान, कानपुर, डॉ. राजबीर यादव, प्रधान वैज्ञानिक, आनुवंशिकी प्रभाग, भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली, डॉ. किरण गायकवाड, वरिष्ठ वैज्ञानिक (पादप प्रजनन), आनुवंशिकी प्रभाग, भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली, डॉ. गनपति मुकरी, वैज्ञानिक, भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली, डॉ. सुमन बक्सी, भाभा एटोमिक रिसर्च सेन्टर, ट्राम्बे, मुम्बई एवं श्री दिलीप कुमार श्रीवास्तव, उपायुक्त, (गुणवत्ता नियन्त्रण), भारत सरकार वीडियो कान्फ्रेंस लिंक के माध्यम से सम्मिलित हुए।

STO (Seed)

...to release





विवरण					
क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
	(फल अनुसंधान केन्द्र कुठुलिया कृषि महाविद्यालय रीवा)			ऊंचाई-5-6 मीटर, फल का वजन (365.5 ग्राम), फल सफेद, गूदा अधिक, फल गोल, कीर्पिंग क्वालिटी अच्छी, लंबे समय तक फल देने वाला, मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त।	के निर्देशों के अनुपालन उपरांत पुनः प्रस्तुत। म.प्र राज्य के लिये अधिसूचित किये जाने हेतु समिति द्वारा अनुशंसित की गयी।

एजेण्डा क्रमांक-5

संचालक, अनुसंधान सेवाएं, आर.व्ही.एस.के.व्ही.व्ही ग्वालियर के द्वारा विभिन्न फसलों की नवीनतम विकसित किस्मों का प्रस्तुतिकरण:-

संचालक, अनुसंधान सेवाएं, आर.व्ही.एस.के.व्ही.व्ही ग्वालियर के द्वारा विभिन्न फसलों की नवीनतम विकसित किस्मों के प्राप्त कुल 10 प्रजातियों के प्रस्तावों पर समिति द्वारा म.प्र राज्य हेतु अधिसूचित किये जाने संबंधी लिये गये निर्णय/अनुसंधान का सारणीकृत विवरण निम्न तालिका अनुसार है।

विवरण					
क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
1	RVSKVV ग्वालियर (भाभा एटोमिक रिसर्च सेन्टर ट्राम्बे मुम्बई एवं कृषि महाविद्यालय ग्वालियर के समन्वय से)	गेहूँ	TRVW-155	परिपक्वता अवधि 111-138 दिन, उत्पादकता 57.50 से 59.20 क्वि/हे., दाना अम्बर, अर्ध-कठोर मोटे दानों वाली मध्यम अवधि की किस्म। चपाती हेतु उपयुक्त, दानों में प्रोटीन की मात्रा 11.5%, आयरन 41.3 ppm, जिंक 40.9ppm, बहुरोग प्रतिरोधी एवं हीट सहनशील, सिचाई की आवश्यकता कम, कम उपजाऊ और मध्यम उपजाऊ सिंचित परिस्थितियों में उपयुक्त, Lok-	समिति द्वारा अनुशंसित की गयी।





विवरण					
क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
				1, GW-322 and HI-1544 का बेहतर विकल्प, मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	
2	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	मसूर	Raj Vijay Lentil - 15-4 / (RVL-15-4)	परिपक्वता अवधि 90-110 दिन, उत्पादकता 17.50 क्वि/हे., बड़े बीज (2.55 ग्राम), पौधा अर्ध सीधा, मध्यम ऊंचाई और चौड़ी पत्ती वाली शाखाएं इसे अंतर फसल के लिए उपयुक्त बनाती हैं, हानिकारक कीट, विल्ट, एस्को-काइटा ब्लाइट, रस्ट, रूट रॉट के प्रति सहनशील। बहुरोग प्रतिरोधी, वर्षा आधारित स्थिति, सूखे के लिए उपयुक्त, अधिक उपज देने वाली, मध्य प्रदेश की वर्षा आधारित कृषि प्रणाली के अंतर्गत समय पर बुआई हेतु उपयुक्त है।	बीज उप समिति बैठक दिनांक 26.07.2022 के निर्देशों के अनुपालन उपरान्त पुनः प्रस्तुत। म.प्र. राज्य के लिये अधिसूचित किये जाने हेतु समिति द्वारा अनुशंसित की गयी।
3	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	सोयाबीन	Raj Vijay Soybean -124 / (RVS-124)	परिपक्वता अवधि 92 दिन, उत्पादकता 20.84 क्वि/हे., बीज में उत्कृष्ट दीर्घायु एवं अंकुरण क्षमता, शीघ्र परिपक्वता होती है, बहुरोग प्रतिरोधक क्षमता, भारी से हल्की मिट्टी, यांत्रिक कटाई और वर्षा आधारित स्थिति के लिए उपयुक्त मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	समिति द्वारा अनुशंसित की गयी।
4	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	अरहर	RVSA-14-2	मध्यम परिपक्वता अवधि 161 दिन, उत्पादकता 21.39 क्वि/हे., 100 बीज का वजन (ग्राम) - 9.84, बीज भूरा, बीज अंडाकार, मध्यम, उकठा रोग के प्रति मध्यम प्रतिरोधी, खरीफ मौसम में समय पर बुआई एवं अंतरफसल के लिए उपयुक्त, UPAS -120, TJT-501 का	समिति द्वारा अनुशंसित की गयी।





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क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
				विकल्प है। मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	
5	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	अरहर	RVSA-16-1	परिपक्वता अवधि 179-183 दिन, उत्पादकता 19.67-28.35 कि/हे., पौधे की ऊंचाई 160 सेमी है। मध्यम आकार के बीज, उकठा रोग के प्रति मध्यम प्रतिरोधी, एकल फसल के साथ-साथ सोयाबीन / मूंग / उर्द की दलहनी फसल के साथ अंतर फसल, JKM-189 का विकल्प, मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	क्र. 3482(E) 07.10.2020 से दक्षिण क्षेत्र के लिए में अधिसूचित, म.प्र. के लिए क्षेत्र विस्तार हेतु प्रस्तावित, म.प्र. राज्य के लिये अधिसूचित किये जाने हेतु समिति द्वारा अनुशंसित की गयी।
6	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	उड़द	Raj Vijay Sehore Urd -1 / (RVSU-1)	परिपक्वता अवधि 73-76 दिन, उत्पादकता 9-10 कि/हे., लांजिंग और शेटरिंग के प्रति सहनशील। बीज आकार मध्यम, बहुरोग प्रतिरोधी और MYMV (MR) और एन्थ्रेक्रोज के प्रति सहनशीलता। फली छेदक प्रतिरोधी, खरीफ और बसंत/ग्रीष्म ऋतु के लिए उपयुक्त, पुरानी किस्मों NU-L 7, T-9, Pratap Urd- 1 का विकल्प है, मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	समिति द्वारा अनुशंसित की गयी।
7	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, सीहोर)	मूंग	Raj Vijay Sehore Mung -1 / (RVSM-1)	परिपक्वता अवधि 66 to 69 दिन, उत्पादकता 8.78 कि/हे., बीज का आकार मध्यम, बीज का रंग हरा, जल जमाव के प्रति प्रतिरोधी, बहुरोगों जैसे MYMV, ULCV, LCV और एन्थ्रेक्रोज के प्रति मध्यम प्रतिरोधी, खरीफ, रबी और ग्रीष्म ऋतु के लिए उपयुक्त। बायोस्ट्रेस के लिये सहनशील.	समिति द्वारा अनुशंसित की गयी।





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क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
				मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	
8	RVSKVV ग्वालियर (कालेज ऑफ एग्रीकल्चर, इन्दौर)	मूंग	RVIM-750-1	शीघ्र पकने वाली किस्म, परिपक्वता अवधि 59-79 दिन, उत्पादकता 10.80 क्वि./हे., पौधा सेमी इरेक्ट, लाजिंग और शेटरिंग के प्रति सहनशील, रोग LCV एवं ULCV के लिए प्रतिरोधी, एन्थ्रेकनोज, पाउडर फफूंदी, बैक्टीरियल लीफ स्पॉट, वाईएमवी के लिए मध्यम प्रतिरोधी। मारुका, पाँड बग के प्रति अत्यधिक प्रतिरोधी, खरीफ के साथ-साथ गर्मियों की खेती के लिए उपयुक्त। मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	समिति द्वारा अनुशंसित की गयी।
9	RVSKVV ग्वालियर (आर.ए.के. कालेज ऑफ एग्रीकल्चर, इन्दौर)	ज्वार	CSV-54HB / (RVJ-2714) / (SPV-2714)	परिपक्वता अवधि 121-127 दिन, कुल ताजा बायोमास: 500 क्वि./हे., शुष्क बायोमास उपज: 258 क्वि./हे. कुल इथेनॉल उत्पादन 360 लीटर/टन बायोमास, पौधे की ऊंचाई 270-300 सेमी. व्यापक अनुकूलनशीलता और 2जी इथेनॉल उत्पादन के लिए उपयुक्त, बरानी खेती में उच्च बायोमास किस्म, लीफ स्पॉट रोगों के प्रति सहनशील, तना छेदक और शूट फ्लाई के लिए मध्यम प्रतिरोधी, मध्य प्रदेश के बरानी क्षेत्रों में खरीफ मौसम की समय पर बुआई के लिए उपयुक्त, वर्षा आधारित उच्च बायोमास किस्म के रूप में पहचानी जाती है। औद्योगिक प्रयोजन एवं मध्यप्रदेश के समस्त कृषि जलवायु क्षेत्र हेतु उपयुक्त है।	अन्य राज्यों तेलंगाना, गुजरात, पंजाब, उत्तराखंड के लिए 06.03.2023 को अधिसूचित, मध्य प्रदेश के लिए क्षेत्र विस्तार हेतु प्रस्तुत म.प्र राज्य के लिये अधिसूचित किये जाने हेतु समिति द्वारा अनुशंसित की गयी।

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क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
10	RVSKVV ग्वालियर (कालेज ऑफ एग्रीकल्चर, इन्दौर)	उड़द	Raj Vijay Indore Urd - 94-1 / (RVIU-94-1)	शीघ्र परिपक्वता अवधि 76 दिन, उत्पादकता 9.30 क्वि/हे., पौधा सेमी इरेक्ट, सभी रोगों और कीटों के प्रति मध्यम प्रतिरोधी, फलियों के चटकने और लॉजिंग के प्रति सहनशील, खरीफ एवं गर्मी की खेती के लिए उपयुक्त। प्रदेश के उच्च तापक्रम वाले क्षेत्र में प्रदर्शन अच्छा नहीं रहा।	ट्रायल के दौरान खण्डवा केन्द्र में प्रदर्शन अच्छा नहीं है, प्रदेश के उच्च तापमान वाले क्षेत्रों में एक वर्ष और ट्रायल आयोजित करने निर्देशित किया।

**एजेण्डा क्रमांक-6**

एडवान्टा एण्टरप्राइजेस लिमि. हैदराबाद के द्वारा हायब्रिड मक्का एवं हायब्रिड धान फसलों की नवीनतम विकसित किस्मों का प्रस्तुतिकरण:-

एडवान्टा एण्टरप्राइजेस लिमि. हैदराबाद के द्वारा हायब्रिड मक्का एवं हायब्रिड धान फसलों की नवीनतम विकसित किस्मों के प्राप्त कुल 3 प्रजातियों के प्रस्तावों पर समिति द्वारा म.प्र राज्य हेतु अधिसूचित किये जाने संबंधी लिये गये निर्णय/अनुसंशा का सारणीकृत विवरण निम्न तालिका अनुसार है।

विवरण					
क्र.	अनुसंधान केन्द्र	फसल	प्रजाति	प्रजाति का विशेष गुण	समिति का निर्णय
1	2	3	4	5	6
1	एडवांटा एंटरप्राइजेज लिमिटेड, हैदराबाद, (तेलंगाना)	हायब्रिड मक्का	PAC-745 Gold	परिपक्वता अवधि 95-100 दिन, उच्च उपज, उत्पादकता 65.41 क्वि/हे., दाना नारंगी पीला, सेमी फिलंट, अच्छी शेलिंग प्रतिशत, व्यापक रूप से अनुकूलित, कटाई के समय हरा रहना, टिप तक फिलिंग के साथ लंबे भुट्टे, NCLB & Cob rot रोग के प्रति सहनशील, सूखा और नमी सहनशील, वर्षा आधारित कृषि के लिए उपयुक्त, पोल्ट्री अहार के	यूपी राज्य के लिए दिनांक 20.07.2021 को अधिसूचित और एमपी के लिए क्षेत्र विस्तार के लिए प्रस्ताव प्रस्तुत। म.प्र राज्य के लिये अधिसूचित किये जाने हेतु समिति द्वारा म.प्र. में एक बार पुनः विश्वविद्यालय के अनुसंधान केन्द्रों पर ट्रायल आयोजित