



CSA-Centre for Incubation & Innovation to Agri Startups



C S Azad University of Agriculture and Technology, Kanpur-208002

ABOUT THE UNIVERSITY

The Chandra Shekhar Azad University of Agriculture and Technology, Kanpur U.P. globally renowned Patthar College is pioneer in the country in agricultural research and education. This University has proven itself able to adapt for changing physical, educational and socio economic environment that we see today in to continue to make significant contributions to build up scientific and educational excellence in maintaining the state and national food balance. This university internationally known for its wheat varieties K 9107- Deva(adopted by Bangladesh for large scale cultivation) and K 9006- Ujiyar (adopted by Nepal and released as Achutya). In case of pulses, lentil variety K -75-Malika(for high export quality, high seed demand from South Korea. In varietal capacity building of Uttar Pradesh, CSA University has contributed about 94 % in linseed, 91 % in sesame, 80% in chickpea, 74-70 % in groundnut, vegetables and mustard, 65 % in barley: 52-47 in field pea, urdbean and lentil in distribution of certified seeds. Our alumni have made their "impression" by their sound knowledge and diligence where ever they are employed and have boost up glory of the University across the globe. This university has the credit to establish Anuppur village of Kanpur Dehat as first of its kind Biofortified Village in India to alleviate problem of mal- nutrition and hidden hunger in economic feasible and as permanent option.



The Centre for Incubation & innovation is established

The Centre for Incubation & innovation is established with a vision to promote agri-startups and enhance the agri-entrepreneurial environment. The CSA-CIFAS aims to bring together the agribusiness

expertise and provide one stop solution to all agripreneurs to innovate, patent, produce and scale-up startups and agribusiness. We value our farmers, students and youth's startups and assist them to survive the tides of uncertainty by offering complete set of benefits such as

- Focused individual/group Mentoring- One to one mentoring with wide pool of subject matter experts along with Customize mentoring session
- Capacity Building programs- such as Startup Incubation Program, Business Plan, Startathon, Ideathon Competitive events networking & facilitated learning sessions.
- Regulatory and Advisory services for marketing, Structuring an entity, Business plan building, Funding options and opportunities Company formation and government approvals etc.
- Intellectual Property Rights - Filing of Patents, Copyright and trademarks etc. One to one Counselling session with Innovators and Startup to nurture innovation, IPR Support for Technology Commercialization.
- Furnished Infrastructure like Startup workstations well equipped with internet Wi-Fi connection, Productive Meeting and Conference rooms and High tech Conference Management System (CMS)

VISION

Fostering Agri innovation & Agripreneurship for pronounced transformation in agriculture and applied sectors, and enhance the agri-entrepreneurial ecosystem by strengthening the agro- advisory services

MISSION

- > To provide incubation and innovation to support business and services to agri-entrepreneurs, and linkage among stakeholders
- > To transform the job seekers in to job creators
- > To be the best hub of agribusiness incubation in Uttar Pradesh



Post harvest & Value Addition Technology



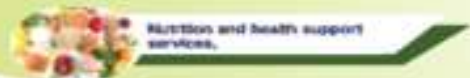
Protected Cultivation & terrace farming



Supply Chain Management



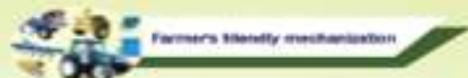
Organic Farming



Nutrition and health support services



Horticulture & Landscaping



Farmer's identity mechanization



Smart Crop Management



Seed Production management



Farm Retailing



Agri & households Waste to Wealth



Bio-Agent & Bio-Fertilizer



Agri Inputs and Pest Protection



Biofertilized Composting



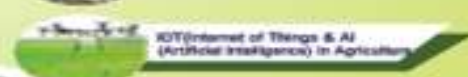
Dairy and Dairy product



High value crops



Healing honey



Agricultural Biotechnology



KIT(Internet of Things & AI (Artificial Intelligence) in Agriculture)

MODUS OPERANDI

Phase 1: Idea to Product Prototype (Early-stage product development)

At CSA-CIIAS platform, you find wealth of activities and resources to enhance your skills, develop ideas, meet entrepreneurs and gain experience. Farmers' and students' start-ups are being assisted by CSA-CIIAS. Our start-ups are offering farming-related advanced technological mechanisms to converting 'ideas' into reality, and in the process making farming a sustainable and profit-making enterprise. We have a dedicated team which can meet, discuss and assess, with you, the power and potential of your idea or business opportunity and to brief you about our capabilities. While, an idea is shortlisted by university committee as a project mode, we allocate project mentors, information about budgets and infrastructures to the project. The project mentors work with our partners to ensure success of the project. 'Proof of concept' and 'promising Ideas' would get access to the research facilities, technical experts, patent filing and extensive mentoring support. This will facilitate to develop a feasible product prototype that can be scaled up. Towards the end of Phase-1, the selected startups of this phase will make a presentation to an expert committee of university, industry experts and professionals. This committee of experts will evaluate the performance of the startups throughout the course of phase-1 and shortlist startups ready for acceleration in Phase-2 of the program.

Phase 2- Product Prototype to its Commercial Launch & Funding Support

Startups will validate their products/service. It will be mentored on how to commercially launch their product/service and sustain in marketplaces. We are seeking and looking for innovation and new partnership opportunities aligned to our areas of interest and with our vision.

INFRA STRUCTURE

One hall, Two chamber and adjacent conference room, about 4000 m² area where herbal and nutri- garden is being established. All facility is established by university.



website: www.csauk.ac.in

Chief Patron



Dr. D. R. Singh
Vice Chancellor

C. S. Azad University of Agriculture & Technology, Kanpur UP



Prof. Vijay Kumar Yadav
Professor & Head, AIM
Chairman
CSA-CIAS, CSAJA&T, Kanpur



Dr. Y. K. Singh
Rice Agronomist
Member
CSA-CIAS, CSAJA&T, Kanpur



Dr. Shobhit Singh
Associate Professor, Food & Nutrition, Co H.Sc
Member
CSA-CIAS, CSAJA&T, Kanpur



Dr. Shweta
Assistant Professor, GFB
Member, Secretary
CSA-CIAS, CSAJA&T, Kanpur

Resource Person

Prof. (Dr.) Vijay Kumar Yadav

Professor and Head, Department of Agri business management

Chairman, C S A - Centre for Incubation & Innovation to Agri Startups

C S Azad University of Agriculture & Technology, Kanpur

E mail: vk Yadav@gmail.com, phone: +91-7376105454

CSA Leading in Agri-Startup



Kartavy Kishor Verma
Founder of FIT-BITE

Who did his B.Sc. Ag in 2021 from CSA University, Kanpur started their startup from 2019 during study period



Green Resident Agri-startup

Products and Services

Products-

- | | |
|--------------------------------|------------------------------|
| 1) Indoor air purifying plants | 2) Radiation reducing plants |
| 3) Medicinal plants | 4) Vermi compost |



SHIVAM TYWARI
CA-10316/2017
CSAUAT, Kanpur



MANISH PANDEY
CA-10285/2017
CSAUAT, Kanpur



INDOOR AIR PURIFYING PLANTS

VERMI COMPOST

Services- 1) Lawn making

2) Vertical gardening

3) Kitchen gardening

4) Terrace gardening

COMING SOON

1) Soil less media

2) Organic pesticides

3) Vermiwash

ECONOMY

• Investment- About 1 lakh

• Annual turnover- 2.4 lakh to 4 lakh

• Expected total market- 12 to 15 lakh

OUTCOME

Its refers to the minimize the air pollution and refresh the environment of indoor areas (home, offices, hospitals, restaurants etc.) to create plenty of the abundance of the oxygen.

We started our enterprise on October 2019, while we were continuing with our studies.

INNOVATION FOR SMALL FARM AND WOMEN FRIENDLY EQUIPMENT

Ready To Agri Startup

GARLIC PLANTER

The field evaluation of manually operated garlic planter was done by raising Garlic crop over an area 0.0180 ha on farm located at College of Agri Engg and Technology Etawah



GROUNDNUT DECORTICATOR (CAET Mk-I)

The decortivating efficiency of modified power operated groundnut decorticator was more (90%) in comparison of hand operated decorticator which was 83% and old power operated groundnut decorticator which was 55.26%.

The new modified power operated groundnut decorticator gave higher decortivating output of 335kg/h.



Paddy Thresher cum Winnower (Mk-I)

The power operated paddy thresher Mk-II was compared in terms of capacity, thermal efficiency, cleaning efficiency and percentage of un-threshed grain for paddy varieties Sri Ram, Pioneer Hybrid 6444 and Pusa Basmati. The paddy thresher Mk-I had higher threshing input capacity than paddy thresher Mk-II however its cleaning efficiency was more or less same as Mk-II. Now it is ready to Agri Startup.



Power Operated Corn Sheller

The power operated corn sheller's shelling capacity is many times higher than that of other treatments. Although the shelling efficiency of hand sheller and hand held sheller is 100%, it is drugerious and time consuming compared to power operated corn sheller which has an efficiency of 95.11%. The cost of operation of shelling corn has been gradually reduced from Rs 419 per quintal to Rs 22.85 per quintal while switching from hand sheller to hand held sheller, pedal operated sheller to power operated corn sheller ignoring other inputs like electricity consumption charges while going for economic analysis. But if other inputs like electricity consumption charges are included the total cost of operation of shelling corn shall be reduced gradually from Rs. 419/- per quintal by hand to Rs. 40.13/- per quintal power operated corn sheller.



विश्वविद्यालय - कृषक सहभागी नवाचार एग्री स्टार्टअप के लिए है तैयार

ऊतक संवर्धन विधि से आलू बीज उत्पादन नवाचार

- ❖ श्री शिवम् तिवारी ग्राम-नादली, पोस्ट-चित्तभवन, विकास खंड-बसरेहर, इटावा एवं कृषि विज्ञान केन्द्र ऊतक संवर्धन विधि से आलू बीज उत्पादन का नवाचार।
- ❖ कृषक द्वारा आलू की खेती 10.0 हे० क्षेत्रफल में की जा रही थी जिससे ₹० 18.00 लाख की आय होती थी। ऊतक संवर्धन विधि से आलू की विभिन्न प्रजातियों जैसे-कु० सुख्यति, कु० नीलकंठ, कु० फाईओम, कु० रंगम के बीज उत्पादन से ₹० 60.00 लाख की आय प्राप्त हुई है। इस नवाचार से स्थानीय स्तर से आलू के बीज की उपलब्धता सुनिश्चित हुई है।
- ❖ ऊतक संवर्धन विधि से आलू बीज उत्पादन के सफल नवाचार से जनपद-इटावा के आलू उत्पादक कृषक प्रभावित होकर इस नवाचार को 25-30 कृषक अपना चुके हैं तथा किसान उत्पादक संगठन का गठन कर नवाचार के विस्तार की योजना है।



विवरण	आय(लाख में)
क. नवाचार के पूर्व	18.00
ख. नवाचार के उपरान्त	60.00
ग. नवाचार का प्रसार	25-30 कृषक

एकीकृत कृषि पद्धति नवाचार

- ❖ श्री राम सिंह पटेल ग्राम-औंग, वि.ख.-मलवा, फतेहपुर में कृषि विज्ञान केन्द्र द्वारा पारम्परिक कृषि में नवाचार हेतु लहसुन एवं सहफसल के रूप में पपीता के साथ परवल, मक्का, खरबूजा एवं हल्दी का उत्पादन किया गया।
- ❖ इस नवाचार से ₹० 5.00 लाख प्रति एकड़ आय प्राप्त की गई।
- ❖ नवाचार का विस्तार जनपद-फतेहपुर के प्रत्येक विकास खंड में करने हेतु प्रभावित कृषकों को चिन्हित कर किया जा रहा है।
- ❖ जनपद फतेहपुर में कृषि विज्ञान केन्द्र के द्वारा 25 कृषकों को पारम्परिक खेती के सापेक्ष इस नवाचार को अपनाने हेतु प्रेरित किया जा रहा है।



विवरण	आय(लाख में)
क. नवाचार के पूर्व	0.95 (धान + मूँ)
ख. नवाचार के उपरान्त	5.00
ग. नवाचार का प्रसार	25 कृषक

अपारम्परिक क्षेत्र में मोती उत्पादन

श्री रमेश सिंह ग्राम-हसनपुर अकोड़िया, खागा, फतेहपुर एवं कृषि विज्ञान केन्द्र, थरियांव के सहभागी प्रयास द्वारा एकीकृत कृषि प्रणाली के साथ मोती की खेती।

- ❖ सामान्यतः 0.11 एकड़ के तालाब में मत्स्य पालन द्वारा ₹० 45000 प्रति वर्ष की आय।
- ❖ वर्ष 2020 में मत्स्य पालन के साथ मोती की खेती से 200 मोती का उत्पादन करने से ₹० 1,25000 की आय प्राप्त हुई। जिससे प्रेरित होकर मत्स्य पालन के साथ-साथ 4000 मोती उत्पादन की योजना है।

मोती उत्पादन के विस्तार हेतु खेत तालाब योजना के अन्तर्गत मत्स्य पालक कृषकों के तालाबों पर प्रस्तावित है।



विवरण	आय(लाख में)
क. नवाचार के पूर्व	0.45 (मत्स्य)
ख. नवाचार के उपरान्त	1.25 (मत्स्य + मोती)
ग. नवाचार का प्रसार	4000 मोती + 35,00,000 रुपे के तालाब

C S A – CENTRE FOR INCUBATION & INNOVATION TO AGRI STARTUPS

News clippings



नोडुडा, रविवार 12 सितम्बर, 2021 **6**

सोएसए के न्यूट्री स्मार्ट विलेज एवं एग्री स्टार्टअप के कार्यों की महानिदेशक ने की प्रशंसा

सोएसए के न्यूट्री स्मार्ट विलेज एवं एग्री स्टार्टअप के कार्यों की महानिदेशक ने की प्रशंसा... (The text continues with details of the director's praise for the work of SoEs, Nutri Smart Villages, and Agri Startups, mentioning various initiatives and their impact on the community.)



यूपी मैसेंजर

कांनपुर/आरापास

मेक इन इंडिया को बढ़ावा देने के लिए सीपा समझौता जापन

मेक इन इंडिया को बढ़ावा देने के लिए सीपा समझौता जापन... (The text discusses the agreement between SoEs and Japan to promote Make in India, highlighting the role of the SoEs in providing infrastructure and support for startups.)



पर्यावरण अनुकूल एवं किसानों के लिए 'सस्ती दरों पर कंपनी द्वारा उपलब्ध होंगे सुविधा वंड'

पर्यावरण अनुकूल एवं किसानों के लिए 'सस्ती दरों पर कंपनी द्वारा उपलब्ध होंगे सुविधा वंड'... (The text describes the company's initiative to provide facilities at low rates for environment-friendly and farmers, including details about the types of facilities and the target audience.)



तीन छात्रों एवं युवा किसानों से महानिदेशक करने आनाही वार्ड

तीन छात्रों एवं युवा किसानों से महानिदेशक करने आनाही वार्ड... (The text reports that the director will not be absent from three students and young farmers, providing context about the director's schedule and the importance of the meeting.)



DIRECTORATE OF PLACEMENT
CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR - 208 002