

e-NEWSLETTER INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

.... Connecting Engineers in Agriculture

Sept. - Oct. 2025



7000 + Members

36 Chapters

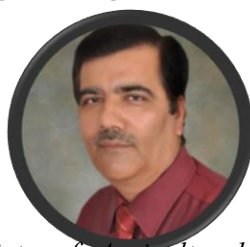
3 Scientific Publications

Published by
INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

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Message From The President



My Dear readers! The Indian Society of Agricultural Engineers has become a truly fast growing International Scientific Society. It is getting several offers for signing MoUs not from India but also from other countries. Most recently I represented the International conference of Asian Association of Agricultural Engineering and put forth our developmental work and aspiration for the future. We had two executive committee meetings, review of annual convention preparation twice, one JAEI editorial board meeting. We celebrated International world food day and Food loss awareness day through different chapters during the period.

Dear ISAEians! The society's publications' citations are progressing leaps and bounds. We are getting benefits of citations because of MoU signed with Pro Quest, EBSCO host and indexing in web of science. I am also happy to inform you that we are continuously getting articles from several countries. Number of submissions have increased so, we revamp and enlarged our editorial board consisting several members from overseas countries. We are also going to launch very soon the second version of our journal management system with enhance facilities and feels to editors, reviewers and authors. Publications of number of articles now have almost established to 18 – 20 articles per issue. On an average review timing the first reporting has reduced to less than three months. I therefore request and recommend all potential authors to submit your articles in this most prestigious progressing and futuristic journal of the country. We have also approached springer nature for co-publishing of this journal in order to increase its marketing and reduce financial burden to the society.

Friends! We collaborative mechanization conclave and awarding Jugar Technologies with Krishi Jagaran was postponed to somewhere in Feb-March 2026. We are in search of few volunteers for taking different tasks/consultancies under the umbrella of ISAE. We participated in AAAE conference and is invited in big kisan mela being organized by various FPOs in Pune. Signing MoU with APEDA is still in progress and probably needs some persuasion. Diverse activities with diverse groups shows how activities of ISAE is unfolding in different group of society.

Dear Members! Establishing directorate/Department of Agricultural Engineering is our dream. I met with Honourable Agriculture Minister of Punjab inside line of a programme in Ludhiana and convinced him for the purpose. I also requested our HAM Shree Chauhan jee during visit to CIAE Bhopal and requested him to write to all the states again and talk to them, which he candidly agreed. The task is big and requires continuous and collaborative efforts are needed. Award nomination/application modules used first time performed well and reduced lot of paper work during this period. We will make it further robust and integration with on-line evaluation system as well.

Dear Agrineers! Preparation of our the 59th ISAE annual Convention and International Symposium is near completion. Both Central ministers, one in inaugural and other in valedictory sessions along with Secretary DARE and DG ICAR have kindly consented to grace the occasion. Friends! Many or almost all stalwarts of Agricultural Engineering in India have consented for their participation. It will be a unique opportunity to meet all the stars of Agricultural Engineering in India at one place. It is my personal request to all members to participate in this unique convention and International Symposium and take benefits of experiences and blessings of luminaries of ISAE. Looking you all to meet at Bhopal during 19-12 November 2025. Jai Hind! Jai Bharat!

S N Jha
President, ISAE

From the Editor-in-Chief's Desk



It is pleasing to note that The Indian Society of Agricultural Engineers (ISAE) is moving into a new phase of its development, and several steps have been taken by the EC in this regards. The society and the member are working actively, to reach maximum number of Agrineers and professional in the agriculture sector through its publications, training session and activities across the country through ISAE chapters.

This newsletter is featured with glimpses of efforts made through activities and advancement in the field of agricultural engineering conducted during this period of Sept. – Oct., 2025 across the country by various agricultural engineering institutes for dissemination of knowhow to all stakeholders.

I hope the content on various technologies through this e-newsletter will give takeaways on latest technologies to Agricultural Engineering professionals in introducing and implementing the same. Your suggestions, feedback are also solicited for further improvement of this mouthpiece of ISAE.

Chandra Shekhar
Chief Editor



e-Newsletter Editorial Board



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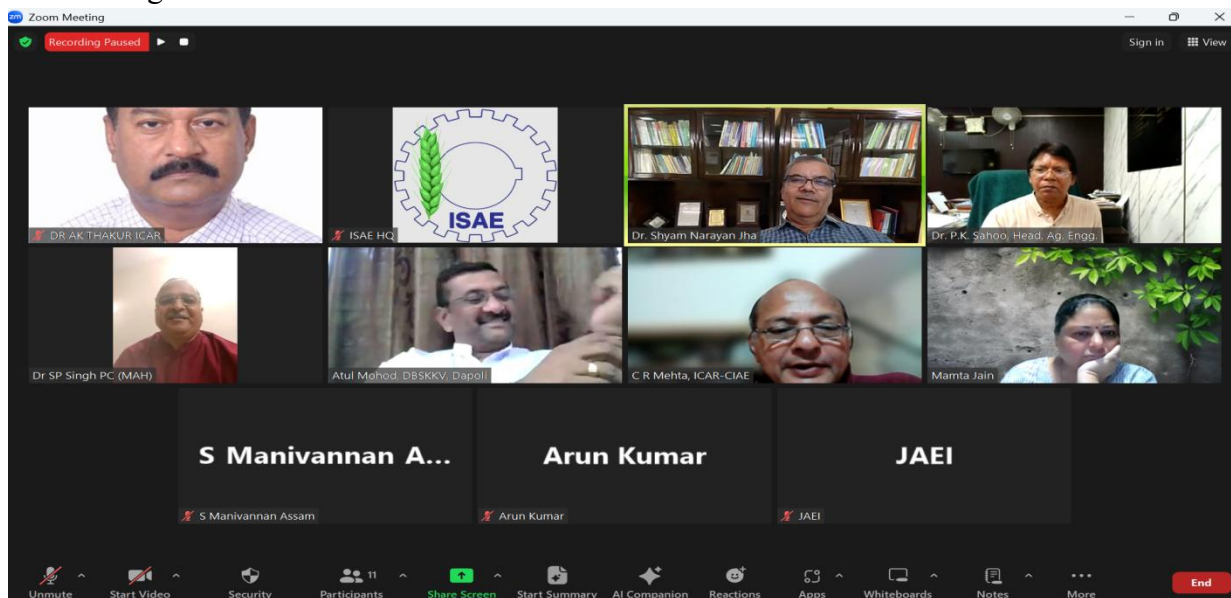
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ISAE Happenings

6th ISAE Executive Committee meeting held on 21 Sept. 2025

The ISAE Executive Committee meeting was held on 21 September 2025 at 11:00 am in Zoom platform. The meeting commenced with the Secretary General welcoming all members of the Executive Committee and Special invitees. At the outset, organizing team of the 59th Annual Convention was requested to present the status of preparations, Dr. S.P. Singh, PC AICRP on MAH and Convener, presented an overview of the current progress, which included the details of abstract submission, registration status, fund received and committed from various agencies. Further the Secretary General provided a comprehensive briefing on the Action Taken Report regarding the discussions and decisions made during the previous Executive Committee meeting and the following points were discussed in the meeting:

1. The Secretary General informed the members that the Award Committee meeting was held on 15th September 2025. During this meeting, the committee members submitted their recommendations in sealed covers, which were subsequently opened in the presence of four Executive Committee members. The EC carefully deliberated on the committee's recommendations and approved them after a thorough review in accordance with the Society bylaws. It was decided that the Secretary General will notify all selected awardees of their recognitions.
2. The EC approved the organization of the Online PhD Thesis Competition 2025, scheduled for 27th September 2025. The competition panel will include one external expert, both Vice Presidents, and the Secretary General.
3. The EC approved a request from the organizing team of the ISAE Convention 2025 to provide seed funding. An amount of Rs. 2.0 lakh will be allocated to the organizing chapter to assist with initial expenses.
4. The EC discussed and finalized the material, content, and images for the upcoming ISAE Calendar 2026. The committee ensured all elements aligned with the selected theme and standards for the year.
5. The meeting concluded with a formal vote of thanks to the Chair and Committee Members



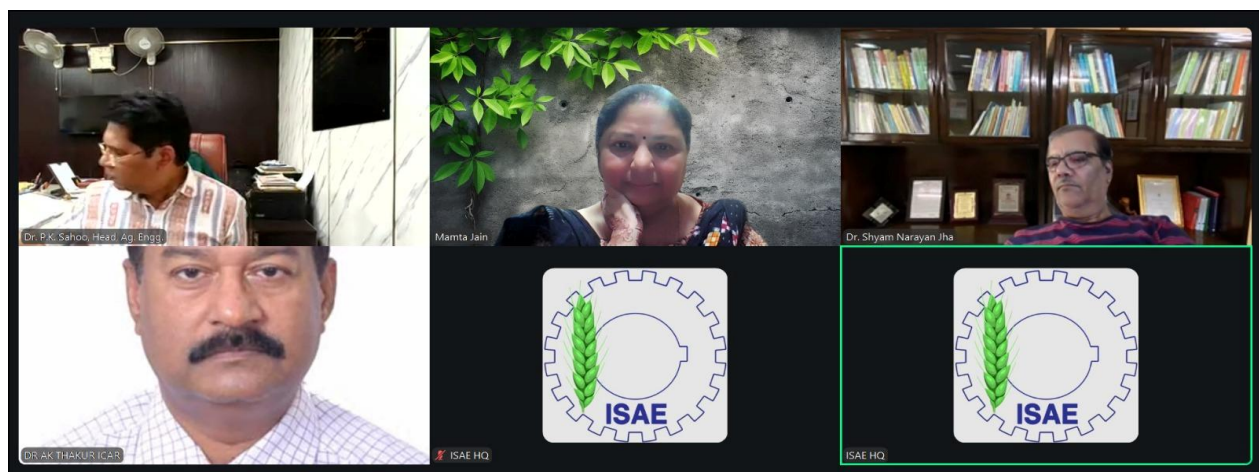
ISAE Happenings

7th ISAE Executive Committee meeting held on 12th Oct.2025

The meeting commenced with the Secretary General welcoming all members of the Executive Committee and Special invitees. At the outset, organizing team 59th Annual Convention provided an update on the preparations for the ISAE Annual Convention. Organizers informed that the items finalized include notepads and registration bags, along with invitations sent to the guests. The session-wise program, including themes and sub-themes, has been outlined, and calls for technical sessions are complete. Accommodation arrangements are being closely monitored. Out of 1000 submitted abstracts, 933 have been accepted, with 441 oral, 367 poster, and 125 student presentations. Registration has seen 163 participants, with 134 having paid fees, totaling approximately ₹10 lakh. Sponsorship has yielded ₹13.25 lakh, with an additional ₹25 lakh committed. Secretary General thanked Dr. C.R. Mehta and Dr. S. P. Singh for their briefing about the upcoming event.

The Secretary General provided a comprehensive briefing on the Action Taken Report regarding the discussions and decisions made during the previous Executive Committee meeting. The following points were discussed.

- 1.All awardees have been notified, and it is anticipated that they will receive their awards in person. Many awardees have accepted and confirmed their participation; while citations will not be provided for all awardees, except for the Honorary Fellow, Fellow, Education medal, Mason Vaugh Pioneer Award, and Gold Medal recipients, the General Secretary informed that the details are requested from all awardees as confirmation of their attendance.
- 2.Secretary General informed the EC that PhD thesis competition was held on 27th September 2025 as scheduled. Three students were awarded, and they have been notified. He also highlighted that as award includes free registration and reimbursement of travel allowance as entitled will be offered to those on request.
- 3.The proposed ISAE Calendar for 2026 has incorporated all suggestions received from the Executive Committee members. It was agreed that any further corrections or comments should be submitted by 15th October. After this date, the calendar will be finalized and sent for printing.
- 4.The possibility of exploring paid advertisements in AET was discussed and proposed for further consideration.



ISAE Happenings

General body meeting of ISAE Delhi Chapter was held on 11/10/2025 in online mode

A general body meeting of ISAE Delhi Chapter was held on 11/10/2025 in online mode under the chairmanship of Dr. A. K. Mishra, Chairperson, ISAE Delhi Chapter. The meeting started with welcome address by the Chairperson to the esteemed members of the ISAE Delhi Chapter. In which following agendas were discussed and approved.

1. The following members of the Delhi Chapter Executive Body were nominated during the General Body meeting and accepted unanimously for the term 2025-2028:

- | | |
|----------------------------------|--|
| i. Chairperson | : Dr. A. K. Mishra |
| ii. Vice-Chairperson (Technical) | : Dr. Susama Sudhishri |
| iii. Vice-Chairperson (Activity) | : Dr. Manoj Sharma |
| iv. Secretary | : Dr. D. K. Kushwaha |
| v. Joint Secretary-cum-Treasurer | : Dr. Jitendra Rajput |
| vi. Councilors | : 1. Dr. Anchal Dass |
| | : 2. Dr. R Pandianselvan |
| | : 3. Dr. Roaf A. Parray |
| | : 4. Er. Abhishak Pandey |
| vii. Student representatives | : 1. Er. Shripryanka S Nalla |
| | : 2. Er. Gourab Chaudhary/Er. Gaurav Kumar |

2. Dr. Dipankar De will be the Chief editor of the Quarterly e-Newsletter of ISAE Delhi Chapter, and the editor team will be further expanded for the smooth functioning of the e-Newsletter.

3. The ISAE Delhi Chapter will organize iPAS 2026 and different committees will be formed soon.

4. A discussion was held on Changing the name of ISAE Delhi Chapter to ISAE Delhi NCR Chapter.

Call for Nominations for the Industry's Recognition

Keeping in view of the significant contribution from agricultural machinery industry for developing new technologies and providing platform for B Tech/M. tech Agricultural Engineers in terms of Internships and Job placements, ISAE is recognizing the Industry's contribution in mechanization of Indian agriculture and recognition for significant contribution.

The Industry may send nominations for the recognition by Filling the below format and send it madhuri.isae@gmail.com on or before 25th October 2025.



ISAE INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

ISAE ANNUAL CONVENTION 2025
INDUSTRY'S RECOGNITION

To appreciate Industries contribution in Mechanisation of Indian Agriculture, ISAE would like to call for the nomination of Industry's Recognition.

🏆 Apply for the recognition to be a part of Grand ISAE Annual Convention at CIAE Bhopal.

For more details, visit our website www.isae.in

📅 **10-12 November 2025**
at CIAE Bhopal

CALL FOR NOMINATIONS:

Fill the application form and send on below mail ID.

✉ madhuri.isae@gmail.com

📅 **Deadline: 25th October 2025**

ISAE Happenings

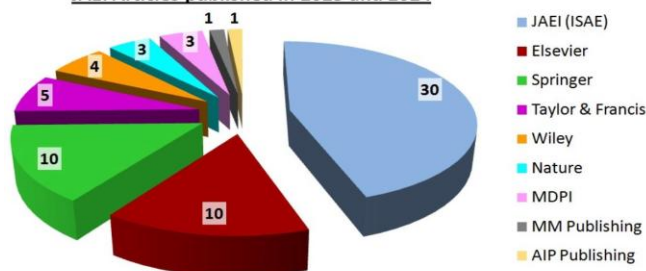
ISAE Journal Management System 2.0, an Upgraded Version

ISAE is happy to inform that ISAE journal management system 2.0, an upgraded version, in which editorial board members, reviewers and authors will get better overview of manuscripts with them along time elapsed with particular reviewer. It will help in reducing reviewing process time further to less than three months. Submit your manuscript and enjoy publishing with ISAE in Journal of Agricultural Engineering (India), a web of science indexed journal.

The Journal of Agricultural Engineering (India) is an English language, peer-reviewed, subscription-based journal published quarterly by the Indian Society of Agricultural Engineers (ISAE), New Delhi. JAEI publishes original research articles of both theoretical and applied nature, with a special focus on experimental research, new design criteria, mathematical modelling, and innovative approaches and emerging technologies in the fields of agricultural engineering and technology addressing problems of agricultural, food, and biological systems. Journal encourages submission of manuscripts by authors from any country/region, irrespective of their membership with the ISAE. Only manuscripts of sufficient quality that meet the aims and scope of the JAEI are considered for publication. **This journal uses a double-blind review process for the submitted manuscripts.** Journal of Agricultural Engineering (India) is a [member](#) of the [Committee on Publication Ethics \(COPE\)](#), and abides by COPE's [Principles of Transparency and Best Practice in Scholarly Publishing](#) guidelines for ethical and transparent scholarly publishing.



Publisher-wise Distribution of 67 Citations of 2025 for JAEI Articles published in 2023 and 2024



We are overwhelmed to inform the whole gamut of citations in 2025 till now of papers published in Journal of Agricultural Engineering India (JAEI) in last two years. Even citations not only in Springer, Elsevier published journals but also in Journal Nature.

So publish in this journal and flourish, as with time publishing in JAEI is going to be tougher as compared to now.

ISAE Happenings

Announcement of 7th CIGR International Conference 2028

The **7th CIGR International Conference**, scheduled for **3rd – 7th October 2028** in **New Delhi, India**. It will be jointly organized by the CIGR International Commission of Agricultural and Biosystems Engineering, the Indian Society of Agricultural Engineers (ISAE), and the Indian Council of Agricultural Research (ICAR). The event aims to highlight transformative engineering innovations that empower smallholder farms and contribute to global food security and sustainability.

The conference, themed “Engineering Innovations in Small Farms for Food-Secure Future,” will address a comprehensive range of topics including land and water engineering, automation, AI in agriculture, crop production technologies, post-harvest processing, farm energy solutions, and modern system management. **ISAE is going to organise this event.**



CIGR International
Commission of Agricultural &
Biosystems Engineering



Indian Society of
Agricultural Engineers



Indian Council of
Agricultural Research



HOME PROGRAM TOPICS AND THEMES COMMITTEES SPONSORSHIP ATTENDING REGISTRATION GENERAL INFORMATION VENUE CONTACT US

7th CIGR INTERNATIONAL CONFERENCE 2028
“ENGINEERING INNOVATIONS IN SMALL FARMS
FOR FOOD-SECURE FUTURE”

3rd - 7th October 2028, New Delhi, India

ENGINEERING INNOVATIONS IN SMALL FARMS FOR FOOD-SECURE FUTURE

TECHNICAL SESSIONS (WITH BROAD AREAS/TOPICS)

The conference will host an extensive range of technical sessions and thematic tracks under the following seven broad areas:

[Section I: Land and Water](#)

[Section II: Structures and Environment](#)

[Section III: Plant Production](#)

[Section IV: Energy in Agriculture](#)

[Section V: System Management](#)

[Section VI: Bioprocesses](#)

[Section VII: Information Technology](#)

In addition to scientific discussions, the conference will feature: Plenary Sessions by global experts; Student Competitions (elocution, design contests); Startup Showcases and live technology demos; Use Case Presentations, exhibitions, and field visits; Cultural tours to explore the heritage of New Delhi

ISAE Happenings

Details of technical sessions and thematic tracks under the seven broad of 7th CIGR International Conference

Land & Water Engineering • Soil and water conservation • Groundwater management & Sustainable Extraction • Modelling and simulation of soil and water processes • Climate change adaptation and mitigation in soil and water systems • Automation and AI in Irrigation • Success Stories of Autonomous Farms	Structures & Environment • Greenhouses and controlled environment agriculture • Livestock housing and manure management • Engineering innovations in fish production systems • Post-harvest storage and processing facilities • Controlled environment storage of perishables • Modern transportation and tracking systems • Supply Chain Management
Plant / Crop Production • Advances in Agricultural Machinery • Conservation Agriculture Strategies • Drones and Robotics in Farm Operations • Hill agriculture and Horticulture Mechanisation • Precision Agriculture, Harvesting and Threshing • Safety and Standard Research in Agriculture	Energy in Agriculture • Farm to Fuel Initiatives: Transforming Farms into Renewable Powerhouses • Solar photovoltaic and thermal systems in Agriculture • Technological advancements in Biomass Conversion technologies • Biohydrogen • Renewable Energy in Mitigation of Climate Change • Recent Alternative fuels for farming
System Management • Food Safety Management Systems • Traceability and monitoring systems to prevent foodborne illnesses • AI, ML, & NLP in Agricultural Decision Support Systems • ICT in marketing of farm produce • Data Analytics and Decision Support Systems in Agri-Businesses • Ergonomics and Safety in Agriculture	Bioprocessing • Robotics and Automation in primary processing and packing • Non-destructive evaluation of food quality and safety • Minimally processed, organic, and functional foods • Tailoring food products to individual dietary needs and preferences • Postharvest technology and infrastructure for reducing food losses & food wastage
Information Technology • Agricultural Research Information Systems • Farmers and Community Information Systems • E-markets, E-governance in Agriculture • Capacity building of stakeholders • Modern Extension Methodologies • Success Stories of Farm Science Centres	Plenary Sessions : Plenary Sessions by global experts; Student Competitions (elocution, design contests); Startup Showcases and live technology demos; Use Case Presentations, exhibitions, and field visits; Cultural tours to explore the heritage of New Delhi

ISAE Happenings

Hon'ble Minister of Agriculture & Farmers Welfare, written a reminder letter for establishment of Directorate of Agricultural Engineering to Chief Ministers of each State

Continuous efforts was being made by Dr. SN Jha President, ISAE and ISAE team for establishment of Directorate of Agricultural Engineering. In this regard a letter was issued by Secretary Department of Agriculture and Farmers Welfare (DA&FW) regarding establishment of Directorate of Agricultural Engineering and creation of District/block-wise Agricultural Engineering officer Post in the state.

Referring the previous letter for establishment of Directorate of Agricultural Engineering, now Hon'ble Minister of Agriculture & Farmers Welfare, Sh. Shivraj Singh Chouhan, has written a reminder letter by giving references of all previous letters for forming the directorate of Agricultural Engineering to chief ministers of each state.

In the letter it is again emphasised that ***“ Directorate of Agricultural Engineering and create post of agriculture engineers at Distt. / Block level in your respective state to achieve farm mechanization goal at a faster rate and to appraise the Hon'ble Parliament standing committee urgently”***

शिवराज सिंह चौहान
SHIVRAJ SINGH CHOUHAN

D.O. No. 1051 /AM



सत्यमेव जयते

कृषि एवं किसान कल्याण और
ग्रामीण विकास मंत्री
भारत सरकार
कृषि भवन, नई दिल्ली
Minister of Agriculture & Farmers Welfare
and Rural Development
Government of India
Krishi Bhawan, New Delhi

F. No. A. Engg. 14/93/2023-AE
29th October, 2025

Respected Shri Siddaramaiah ji,

Kindly refer to the earlier DO letter No. 784/AM, dated 16.08.2023, letter No. Ag. Engg. 2/11/2018-AE, dated 28.06.2022 by then Minister of Agriculture and Farmers Welfare, Govt. of India and letter No. A. Engg. 14/93/2023 dated 31st December, 2024 by Secretary Department of Agriculture and Farmers Welfare (DA&FW) regarding establishment of "Directorate of Agricultural Engineering" and creation of district/block-wise Agricultural Engineering Officer post in the state.

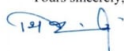
With an aim to reduce labour force for agricultural operations, increasing costs of labour, drudgery and input and timeliness of farm operations makes the farm mechanization indispensable and compulsory. The Hon'ble Parliamentary Standing Committee on Agriculture, Animal Husbandry and Food Processing (2022-23) on the subject "Research and Development in Farm Mechanization for Small and Marginal Farmers in the Country" has recommended in its report to create Directorate of Agricultural Engineering in each state (recommendation no. 7 in the 58th Report of Standing Committee) for accelerating and getting farm mechanization level 75% by 2047.

The mechanization of agricultural production, rural post-harvest processing & value addition, mechanized environment-controlled animal husbandry & dairy are of paramount importance for enhancing our food security and farmers' income. The rapid development in high tech machines such as precision farming machines, drones, AI, robotics and other sensor technologies further necessitate to have Directorates with sufficient number of Agricultural Engineers in the field at the state level to meet future agricultural challenges.

It is, therefore, requested to establish Directorate of Agricultural Engineering and create posts of Agricultural Engineers at district/block level in your respective state to achieve the farm mechanisation goal at a faster rate and to apprise the Hon'ble Parliament Standing Committee urgently.

With regards,

Yours sincerely,



(Shivraj Singh Chouhan)

Shri Siddaramaiah,
Hon'ble Chief Minister of Karnataka

Agriculture & Farmers' Welfare Minister's Office : 120, Krishi Bhawan, New Delhi-110 001
Tel. : 011-23383370, 23782594, 23073789, 23782691
Residence : 12, Safdarjung Road, New Delhi-110 001
Tel. : 011-21411095, 21411096

शिवराज सिंह चौहान
SHIVRAJ SINGH CHOUHAN

D.O. No. 1051 /AM



सत्यमेव जयते

कृषि एवं किसान कल्याण और
ग्रामीण विकास मंत्री
भारत सरकार
कृषि भवन, नई दिल्ली
Minister of Agriculture & Farmers Welfare
and Rural Development
Government of India
Krishi Bhawan, New Delhi

F. No. A. Engg. 14/93/2023-AE
29th October, 2025

Respected Shri Devendra Fadnavis ji,

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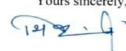
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With regards,

Yours sincerely,



(Shivraj Singh Chouhan)

Shri Devendra Fadnavis,
Hon'ble Chief Minister of Maharashtra

Agriculture & Farmers' Welfare Minister's Office : 120, Krishi Bhawan, New Delhi-110 001
Tel. : 011-23383370, 23782594, 23073789, 23782691
Residence : 12, Safdarjung Road, New Delhi-110 001
Tel. : 011-21411095, 21411096

Drone tech can help contain crop loss, promote biodiversity and soil health

The University of Agricultural Sciences in Dharwad organized a national conference on Comprehensive Crop Management through Drone Technology in Agriculture (CCMDTA) in Dharwad on October 30. Resource persons presented various papers on the emerging technology and its potential benefits. V. P. Chaudhary Principal Scientist, ICAR-Central Institute of Agricultural Engineering, Bhopal, spoke on the various aspects of drone application in agriculture.

Vice-Chancellor P. L. Patil said that drone technology is emerging as a ray of hope to answer the problems of farm labour, wastage of water, improper use of chemicals, and to forecast disease and pest outbreaks. “Through the adoption of drone technology, not only can crop loss be reduced, but biodiversity and soil health can be promoted. This will ensure sustainability in agriculture” he said.

“Drones make daily tasks, like spraying fertilizer and

pesticides, more precise and less taxing, giving farmers relief from backbreaking work and reducing their contact with chemicals” P. L. Patil Vice-Chancellor, UAS-Dharwad



“Drone technology is changing the face of farming by giving farmers tools that feel almost like an extension of themselves, helping them understand and care for their land on a deeper level. Instead of simply machines, drones act as agile eyes in the sky, zipping across fields to capture vivid images and data about crop health, soil conditions, and irrigation patterns. With this bird’s-eye view, farmers can spot problems early — whether a patch of yellowing plants, signs of thirsty soil, or a tiny outbreak of pests — and respond before the issue grows. Drones also make daily tasks, like spraying fertilizer and pesticides, more precise and less taxing, giving farmers relief from backbreaking work and reducing their contact with chemicals,” he said.

He said that India is expected to be home to over 600 drone manufacturing and related companies by 2025, reflecting the rapid growth in the sector. Already, over 100 agricultural drone manufacturing companies are actively operating in the sector. According to recent industry reports, drone-based agriculture has helped reduce chemical usage by 30-40%, and saved around 222 million tonnes of water worldwide. Aequs Limited Chief Technology Officer Ravi Guttal said that the days were not far when drone would take up most of the everyday operations in agriculture. ‘In recent years, there have been significant development in the field of agricultural technology, but concerted efforts to take them to the actual beneficiaries are needed,’ he said.

Source: <https://www.thehindu.com/news/national/karnataka/drone-tech-can-help-contain-crop-loss-promote-biodiversity-and-soil-health-uas-dharwad-karnataka/article70221359.ece>



ICAR-CIPHET Licenses Innovative Day-Night Solar Insect Trap, Pioneering a New Era in Chemical-Free Pest Control

In a technology development for sustainable agriculture, the ICAR-Central Institute of Post-Harvest Engineering and Technology (ICAR-CIPHET), Ludhiana, has licensed a novel "Day-Night Solar Insect Trap" that promises to revolutionize pest management while minimizing the use of harmful chemical pesticides. The licensing agreement was awarded to Mr. P. Shekhar Pandey, an entrepreneur representing M/s Parashar Agrotech Bio Pvt. Ltd., Varanasi, marking a significant milestone in technology transfer and public-private partnership in agricultural innovation. Traditional pest control methods rely heavily on chemical pesticides, which not only pose serious health risks to farmers and consumers but also negatively affect the environment and beneficial insect populations such as pollinators. Additionally, the rising cost of chemical inputs adds to the economic burden on farmers.

In response to these pressing challenges, a research team at ICAR-CIPHET has developed an advanced solar-powered insect trap designed to function efficiently both during the day and at night. This innovative device operates using solar energy, eliminating the dependency on grid power and significantly reducing operational costs. Its unique design enables it to attract and trap a wide range of insect pests across various cropping systems and storage. The 24/7 operational capacity of the trap makes it a viable and eco-friendly alternative to chemical pesticides.

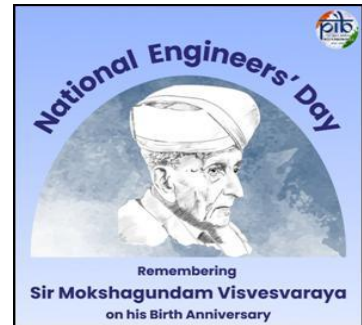
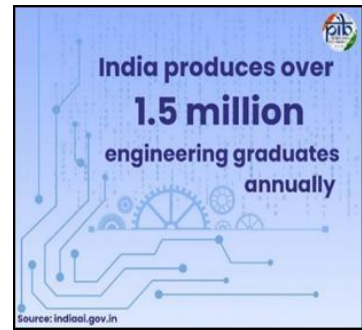
Farmers using this technology can expect reduced crop damage, lower input costs, and improved yields, contributing to a more sustainable and profitable farming ecosystem. The development of the solar insect trap was led by Dr. Guru P.N. and Dr. Sumit B. Urhe of ICAR CIPHET. Recognizing its commercial and ecological potential, Mr. P. Shekhar Pandey of Parashar Agrotech Bio Pvt. Ltd. expressed keen interest in licensing the technology for wider dissemination among farmers, especially in regions prone to high pest pressure. The licensing process was facilitated by Dr. Ranjeet Singh, Head of Technology Transfer and Officer-in-Charge of the Intellectual Technology Management Unit (ITMU) at ICAR-CIPHET. Dr. Nachiket Kotwaliwale, Director of ICAR-CIPHET, handed over the official licensing agreement and certificate to Mr. Pandey. Dr. Kotwaliwale reaffirmed the institute's commitment to supporting entrepreneurs and agri-tech startups in their efforts to scale up innovations. "ICAR-CIPHET will extend all possible support to ensure successful commercialization and adoption of this technology," he noted. With this licensing, ICAR-CIPHET continues to lead in providing practical, farmer-friendly technologies that not only address the immediate needs of Indian agriculture but also align with long-term goals of environmental conservation and food security.



Engineers Day Celebration, 2025

National Engineers' Day is celebrated every year on September 15 to honor the birth anniversary of **Sir Mokshagundam Visvesvaraya**, one of India's greatest engineers. **Renowned for his pioneering contributions to engineering, he transformed the country's infrastructure through innovative designs, visionary planning, and practical solutions that combined technical excellence with social impact.** Beyond his work as an economist, statesman, and writer, it is his extraordinary achievements as an engineer that continue to inspire generations, setting a benchmark for problem-solving, innovation, and nation-building.

As India embarks on its **Techade**, a decade of rapid technological innovation and transformative growth, the role of engineers becomes increasingly vital. The growing number of skilled engineering graduates reflects the success of government initiatives in promoting education, research, and innovation, enabling India to take a leading position in the global technological landscape. **These efforts are key to achieving the vision of *Viksit Bharat 2047*, where India becomes a developed, technologically advanced, and self-reliant nation.**



From humble beginnings, Sir M. Visvesvaraya **rose to serve as the Diwan of Mysore and the President of the All-India Manufacturers' Organization.** Awarded the **Bharat Ratna in 1955**, his visionary ideas continue to guide economic planners. His life remains an enduring inspiration, cementing his place as a monumental figure in India's history.

Notable Contributions of Sir M. Visvesvaraya

Innovative Flood Management Systems: After the 1908 Musi River floods, Sir M. Visvesvaraya designed reservoirs like Osman Sagar and Himayat Sagar and proposed systematic flood control solutions. He also implemented measures to protect Visakhapatnam port from sea erosion, thereby enhancing urban resilience. Today, his reservoir-based flood management principles continue to guide modern water and disaster management projects.

Pioneering Dam Construction and Irrigation: As Chief Engineer of Mysore, Sir M. Visvesvaraya built the **Krishna Raja Sagara (KRS) Dam** in 1932, creating **Asia's largest reservoir and transforming Mandya agriculture.** His automatic sluice gates improved water regulation at multiple dams, and he advanced irrigation and hydroelectric projects. These innovations continue to influence modern dam design and water management.

Influential Literary Works: Sir M. Visvesvaraya's writings have had a lasting impact on India's development. *Planned Economy for India* promoted industrialization and infrastructure, *Reconstructing India* emphasized education and governance, and *Memoirs of My Working Life* chronicled his engineering achievements. **These works continue to guide modern economic and engineering strategies.**

Engineers are the driving force behind India's transformation, **shaping the nation's critical infrastructure and leading knowledge-driven innovation.** From constructing vital dams, roads, and buildings to advancing digital transformation, they play a crucial role in building a modern nation.

Engineers Day Celebration, 2025

TNAU organized “Tech on Track: Engineers’ Day Showcase” with Tractor Rally & Expo

Tamil Nadu Agricultural University, Agricultural Engineering College and Research Institute (AEC&RI), Coimbatore, organized “Tech on Track: Engineers’ Day Showcase” to commemorate National Engineers’ Day 2025 and highlight the pivotal role of agricultural engineers in advancing sustainable farming practices. The event was organized by the MasonAGE Club under the able leadership of Dr. A. Raviraj, Dean, AEC&RI. A highlight of the program was the Tractor Rally and Expo – the first of its kind in TNAU – providing students a unique opportunity to engage with modern agricultural machinery and technologies. Tractors ("Mahindra," "Redlands," and "John Deere") from the Department of Agricultural Engineering, Government of Tamil Nadu, Coimbatore, the Department of Farm Machinery and Power Engineering, the Directorate of Crop Management, and the Directorate of Plant Breeding and Genetics, TNAU, participated in the rally and expo. Agricultural Engineering students and faculty members actively drove the tractors, creating awareness about the importance of mechanization in agriculture and its benefits for farmers. The event also featured hands-on learning sessions through model-making, showcasing the art and science of construction, and fostering innovation, creativity, and collaboration among students. The program stood as a vibrant tribute to agricultural engineers and their vital contributions in transforming agriculture through technology, innovation, and sustainable solutions.



Source

<http://www.agritech.tnau.ac.in/tnaupressnotes/pdf/2025/TNAU%20organized%20%E2%80%9CTech%20on%20Track%20Engineers%E2%80%99Day%20Showcase%E2%80%9D%20with%20Tractor%20Rally%20&%20Expo%20-%20Eng.pdf>

Engineers Day Celebration, 2025

Engineers Day Celebration at Varanasi Chapter of ISAE

Engineers Day-2025 was celebrated in the Department of Agricultural Engineering, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi (U.P.) on 15 September 2025. Professor VK Chandola, Head, Department of Agricultural Engineering spoke on the Engineers day theme “Deep Tech & Engineering Excellence: Driving India’s Techade”. Professor Ram Mandir Singh, Chairman, ISAE Varanasi Chapter expressed his gratitude to the Head of the Department, all the teachers and students for their participation in the program.



The Institution of Engineers Varanasi Centre proudly honors Prof. V.K. Chandola with Distinguished Engineer's Award for his exemplary and innovative contributions to the field of Agricultural Engineering. This prestigious recognition celebrates his unwavering commitment to advancing agricultural technologies, fostering sustainable solutions, and inspiring academic excellence. He has significantly impacted both research and practice, setting new benchmarks in the discipline and empowering future generations of engineers. His dedication and vision continue to shape the future of agricultural engineering in U.P. and beyond.



Engineers Day Celebration, 2025

On the occasion of Vishwakarma Puja , Engineering Dept. of IARI celebrated the Engineers day

Engg. Dept. of IARI Celebrated Engineers and combined teachers day, with students and faculty and motivated them how to contribute faster in Nation building to become Bharat a much better than so many so called Vikshit countries.



Makhana Mahotsav 2025 at Gyan Bhavan, Patna

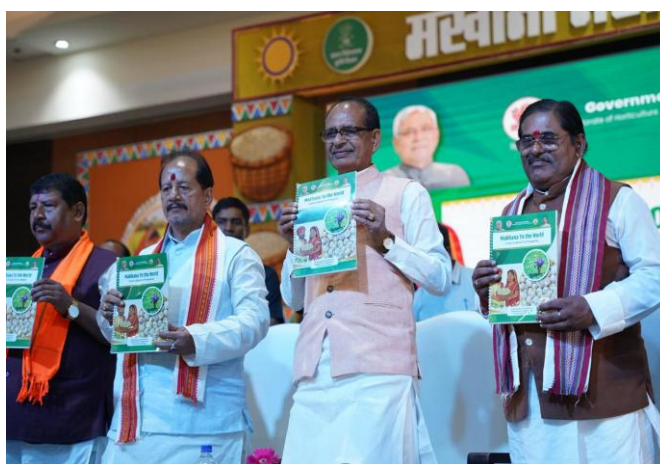
Union Minister for Agriculture, Farmers' Welfare, and Rural Development, Shri Shivraj Singh Chouhan today visited Patna during his one-day tour of Bihar, where the Minister participated in 'Makhana Mahotsav 2025' held at Gyan Bhavan, Gandhi Maidan, and released the report titled 'Makhana: From Culture to Prosperity' (Makhana: Sanskriti se Samridhhi).

In his address, Minister Chouhan said that Prime Minister Shri Narendra Modi recently extended a historic gift worth ₹64,000 crore to the youth, especially those from Bihar. "Bihar is witnessing showers of prosperity and development — the Sun of a developed India is shining brightly on the state's destiny," he remarked.

Calling makhana an "extraordinary blessing" for the poor, Shri Chouhan said Bihar has now emerged not just as India's but also the world's leading centre for makhana production. He noted that the cultivation area, which earlier covered around 3,000 hectares, has now expanded to 35,000–40,000 hectares.

Shri Chouhan announced that the Central Government has notified the establishment of a Makhana Board to promote research, development, marketing, branding, and promotion of makhana. He added that nearly ₹475 crore has been sanctioned for modern machinery, new variety development, and processing facilities to boost makhana production and value addition.

Appealing to Bihar's youth to launch startups in the makhana sector, the Union Minister assured full support from the Central Government. "Our goal is to take makhana from India to dining tables across the world, ensuring a steady rise in farmers' incomes," Shri Chouhan said.



Source: <https://www.pib.gov.in/PressReleaseDetail.aspx?PRID=2174801>

Makhana Mahotsav 2025 at Gyan Bhavan, Patna

Dr. Shyam Narayan Jha is considered the man behind the makhana revolution, having dedicated 36 years to mechanizing the traditional and labor-intensive makhana processing industry. His work has transformed the humble aquatic crop into a celebrated superfood, increasing farmer incomes and creating a thriving industry both in India and internationally.

Dr. Jha developed a mechanized system for roasting and popping makhana, which reduced the processing time from days to hours and increased capacity by about eight times. This innovation significantly improved the quality of makhana and raised the socio-economic status of lakhs of farmers and other stakeholders involved in its cultivation and processing. Dr. Jha's efforts, alongside his development of specialized agricultural machinery, have helped elevate makhana from a traditional crop to a globally recognized superfood.



"Think how exciting and happiness one will have, if an industry sets up in your own home district near your own village and fully based on your own technologies developed after putting your life time. Yesterday inaugurated fully a mechanised makhana processing in Jhanjharpur, Madhubani. In fact the owner was waiting for months and wanted that I only should inaugurate it. Mr. Sahil Gupta from Ghaziabad along with his two friends have done this wonderful job. I think very few scientists get such opportunity in life. Thanks Sahil and his team and wish you all the success.

After that I also had opportunity to inaugurate National Makhana Mahotsav at NRC Makhana, Darbhanga. Event was special as NRC Makhana signed MOA with ITC, a multinational company, and SKUAST Srinagar in which Honourable VC with his team himself was present to take Makhana to J&K. Friends and followers! You will be happy that our team is working very hard to spread makhana cultivation in many states such as Telangana, Chhatisgarh, Rajasthan, and many other states are approaching us. You know, how much a person becomes happy when he/she sees how seeds shown in 37 years back are now bearing fruits after continuous, watering, weeding, and caring for years. Thanks to many friends, colleagues, seniors and super seniors to help in this endeavours. Thanks to all." - Dr. S N Jha



Global Food Regulators Summit (GFRS) took place from September 26–27, 2025, at Bharat Mandapam

The third Global Food Regulators Summit (GFRS) took place from September 26–27, 2025, at Bharat Mandapam in New Delhi, India. The event, hosted by the Food Safety and Standard Authority of India (FSSAI), brought together national and international regulators to discuss food safety and sustainability, under the theme "Evolving Food Systems— “Yatha Annam Tatha Manah” (As the food, so the mind). The summit featured technical sessions, a CEO conclave, an Ambassadors' Conclave, and a masterclass with the WHO.

Objectives: The summit aimed to foster international collaboration, strengthen regulatory frameworks, share knowledge on food safety, and promote fair trade and sustainable food systems.

The event was inaugurated by Union Health Minister Shri JP Nadda and concluded with a valedictory address by Union Minister of State for Health and Family Welfare, Shri Prataprao Ganpatrao Jadhav. The summit included participation from 59 countries and various international organizations like the WHO and the World Trade Organization (WTO)

In this submit Dr. SN Jha, DDG (Engg.), chair the Scientific committee (the apex committee) of Food Safety and Standard Authority of India (FSSAI)



Union Agriculture Minister Shri Shivraj Singh Chouhan inaugurates National Seeds Corporation's state-of-the-art seed processing plant

Union Minister for Agriculture & Farmers' Welfare and Rural Development, Shri Shivraj Singh Chouhan inaugurated the newly established state of the art vegetable and flower seed processing and packaging unit of the National Seeds Corporation (NSC) at Pusa Complex, New Delhi on 27th Oct. 2025. On this occasion, he also virtually inaugurated five NSC seed processing plants located at Bareilly, Dharwad, Hassan, Suratgarh and Raichur.

The vegetable seed processing plant at Beej Bhawan, Pusa, New Delhi, has a processing capacity of 1 tonne per hour, while the other five NSC plants have a capacity of 4 tonnes per hour each. These facilities are equipped with advanced technologies to ensure the availability of high-quality seeds to farmers and to enhance the quality of seed production across the country.

During the programme, Shri Chouhan also launched the 'Seed Management 2.0' system and an online seed booking platform for farmers. Through this platform, farmers will now be able to book their seed requirements online, ensuring greater transparency and accessibility. He emphasized that it is crucial for quality seeds to reach small and marginal farmers.

Shri Chouhan stated that the new facilities will ensure easy access to high-quality seeds, significantly improving agricultural productivity. "These new plants will fulfil farmers' requirements, which is extremely important. During the recently conducted 'Viksit Krishi Sankalp Abhiyan', the maximum number of complaints received were related to spurious and substandard seeds. Hence, ensuring the supply of quality seeds is essential, and NSC has a vital role to play in this. The government is taking strict measures in this regard," the Union Minister said.

Commending the NSC team, the Union Minister described this initiative as a major step towards a self-reliant agricultural system, adding that the role of NSC is not merely to earn a livelihood but to fill the nation's grain reserves.

Shri Chouhan urged the corporation to undertake innovations in regional languages to make its services more accessible to farmers and curb the arbitrary practices of private companies. "Private players have their own role, but public corporations have their distinct importance. The functioning of State Seed Development Corporations also needs to be improved. Considering all these aspects, NSC should work with a clear roadmap," he said.

The event was attended by Agriculture Secretary Shri Devesh Chaturvedi, NSC CMD and Additional Secretary, Ministry of Agriculture & Farmers' Welfare, Smt. Maninder Kaur Dwivedi, Joint Secretary Shri Ajit Kumar Sahu, and senior officials from NSC and the Agriculture Ministry.

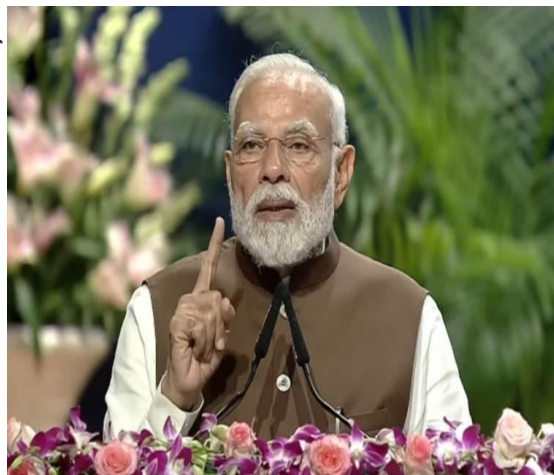
The National Seeds Corporation Limited is a Schedule 'B' – Mini Ratna Category-I Company, fully owned by the Government of India. Since its establishment in 1963, NSC has been playing a pivotal role in producing and supplying quality seeds to farmers across the country.





Prime Minister Shri Narendra Modi launches ‘Pradhan Mantri Dhan-Dhaanya Krishi Yojana’ and ‘Self-Reliance in Pulses Mission’

At a landmark event held at Pusa on 11 Oct. 2025, Delhi, Prime Minister Shri Narendra Modi unveiled a series of transformative initiatives for India’s agriculture and allied sectors. Union Minister of Agriculture & Farmers’ Welfare, and Rural Development, Shri Shivraj Singh Chouhan, and Minister of State Shri Bhagirath Choudhary were also present on the occasion with the Prime Minister. Prime Minister Modi interacted directly with groups of farmers engaged in pulses cultivation, the Agriculture Infrastructure Fund (AIF), animal husbandry, and fisheries, discussing their challenges and innovations. The occasion also marked tributes to eminent social reformers such as Lok Nayak Jayaprakash Narayan and Nanaji Deshmukh on their birth anniversaries.



The launch of the ‘Pradhan Mantri Dhan-Dhaanya Krishi Yojana’ and the ‘Self-Reliance in Pulses Mission’ marks a major milestone in India’s agricultural journey. The ‘PM Dhan-Dhaanya Krishi Yojana’ is a coordinated initiative involving 36 sub-schemes across 11 ministries, designed to accelerate agricultural progress in aspirational districts. The ‘Self-Reliance in Pulses Mission’ aims to make India self-sufficient in pulses production, reducing dependence on imports in light of rising domestic demand. The Prime Minister also inaugurated and laid the foundation for 1,100 projects under the Agriculture Infrastructure Fund (AIF), animal husbandry, fisheries, and food processing sectors. Together, these initiatives represent a historic investment exceeding ₹42,000 crore, paving the way for the creation of modern cold storage facilities, processing units, and warehouses across rural India.



Prime Minister Shri Narendra Modi launches ‘Pradhan Mantri Dhan-Dhaanya Krishi Yojana’ and ‘Self-Reliance in Pulses Mission’

Recognition of farmers and FPOs

The Prime Minister felicitated farmers, Farmer Producer Organizations (FPOs), cooperatives, and individuals demonstrating exceptional innovation and contribution to agricultural development. Their achievements were recognised as exemplary models of India’s growing rural enterprise ecosystem.

Fertilizer subsidies and GST relief

Expressing gratitude to the Prime Minister, Union Agriculture Minister Shri Shivraj Singh Chouhan said that under PM Modi’s leadership, the government ensured that the surge in global fertiliser prices did not affect Indian farmers. “A bag of urea continues to be available at just ₹266, and DAP (Di-Ammonium Phosphate) at ₹1,350, due to massive government subsidies,” he said. The Union Minister also noted that the reduction in GST on agricultural machinery has made modern equipment more affordable for farmers nationwide.

Historic increase in MSP

Shri Chouhan highlighted that the Central government has significantly increased the Minimum Support Price (MSP) for major crops: by ₹160 per quintal for wheat, ₹200+ for gram, ₹300 for lentil, ₹250 for mustard, and ₹600 for sunflower.

Financial empowerment of farmers

The Union Agriculture Minister stated that under the ‘PM-Kisan Samman Nidhi’, ₹3.90 lakh crore have been directly transferred into farmers’ bank accounts. Through the Kisan Credit Card (KCC) scheme, loans worth over ₹10 lakh crore were disbursed in FY 2024–25, alongside ₹1.62 lakh crore in interest subsidies. The ‘Pradhan Mantri Fasal Bima Yojana’ provided compensation exceeding ₹1.83 lakh crore to insured farmers.

FPO growth and innovation

Highlighting the success of Farmer Producer Organisations (FPOs), Shri Chouhan said that over 52 lakh farmers are now shareholders in FPOs, with 1,100 FPOs achieving ‘crorepati’ status and collectively recording a turnover exceeding ₹15,000 crore. The Agriculture Ministry continues to extend innovation, branding, and market linkage support to these organizations.

Commitment to self-reliance and ‘Viksit Bharat’

The Union Minister reiterated that the government is working to position Indian agriculture on global standards while driving the nation towards ‘Atmanirbharta’ (self-reliance) and ‘Viksit Bharat’ (Developed India). He appealed to citizens to embrace Swadeshi and contribute to the nation’s growth.

Praising the Prime Minister’s visionary leadership, Shri Chouhan said, “Under Prime Minister Modi’s guidance, we are committed to fulfilling the dream of a developed, self-reliant India, built on the foundation of farmers’ prosperity, indigenous enterprise, and innovation.”

Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2177834>



ICAR-NDRI Unveils Curtain Raiser for Emerging Agriculture Technologies under ESTIC-2025

ICAR–National Dairy Research Institute, Karnal, hosted the Curtain Raiser of Emerging Agriculture Technologies (EAT) under the Emerging Science, Technology & Innovation Conclave (ESTIC-2025), marking the launch of a national initiative to accelerate innovation and technology integration in Indian agriculture. The event took place at the Dr. D. Sundaresan Auditorium and brought together senior officials, scientists, agro-industry representatives, and experts from ICAR institutions across the country. Dr. Mangi Lal Jat, Secretary (DARE) & Director General,



ICAR, graced the ceremony as the Chief Guest, while Dr. Raghavendra Bhatta, Deputy Director General, (Animal Science) ICAR, Dr. A. K. Nayak Deputy Director General, (NRM) ICAR, and Dr. S. N. Jha, Chairman, ESTIC-EAT & Deputy Director General, (Agricultural Engineering) ICAR were the Guests of Honour. The event was presided over by Dr. Dheer Singh, Director, ICAR-NDRI.

In his address, Dr. Jat emphasized the urgent need for science-led innovation to tackle challenges of climate change, sustainability, and food security. He noted that EAT under ESTIC-2025 would catalyze the convergence of engineering, biological, and digital technologies, focusing on precision farming, farm automation, and omics-based innovations, aligned with Atmanirbhar Krishi and the national vision of Viksit Bharat 2047.

Dr. Anil Rai, Assistant Director General (ICT), ICAR, presented an overview of the ESTIC-EAT initiative, emphasizing cross-institutional collaboration and technology dissemination. He noted that ESTIC represents India's first joint platform integrating stakeholders from 11 scientific ministries and departments, connecting researchers, industry, academia, and government under a whole-of-government approach. Dr. Raghavendra Bhatta stressed the integration of animal science with digital innovations for sustainable livestock development, while Dr. S.N. Jha highlighted the need for strategic, collaborative, and visionary efforts to translate agricultural innovations from laboratories to real-world applications, setting global benchmarks for sustainable, technology-driven food systems. Dr. Dheer Singh highlighted ICAR-NDRI's role in pioneering sustainable dairy and livestock technologies and announced that ESTIC-2025 will be held from 3–5 November 2025 at Bharat Mandapam, New Delhi, inaugurated by Prime Minister of India. The conclave theme is: "Imagine, Innovate, Inspire for Viksit Bharat 2047."

The event featured the release of the video 'ESTIC–Emerging Agricultural Technologies' by the Chief Guest, followed by the felicitation of dignitaries, reaffirming ICAR's commitment to innovation, sustainability, and inclusive growth in Indian agriculture.

(Source: <https://icar.org.in/en/icar-ndri-unveils-curtain-raiser-emerging-agriculture-technologies-under-estic-2025>)

World Food Day 2025

World Food India 2025 Scheduled in New Delhi from September 25–28

World Food India 2025 organized from 25th to 28th of September at Bharat Mandapam in New Delhi. The 4th edition of World Food India aims to promote investments in the diverse food processing sector, as well as introduce India's rich food culture to the World. Prime Minister Narendra Modi will inaugurate the event.



Briefing the media in New Delhi today, Minister of Food Processing Industries, Chirag Paswan, said that World Food India is not merely a trade show, but a transformative platform to position India as a global hub for food innovation, investment, and sustainability. He added that under the leadership of Prime Minister Narendra Modi, this event demonstrates a commitment to sustainable, inclusive, and future-ready food systems and strengthens India's position as the Food Basket of the World. On the occasion, Mr Paswan also launched a publication titled 'Frequently Asked Questions on Different Concepts of Food Processing'. He said that his ministry has constituted a committee to prepare regulations for misleading advertisements related to processed foods.

The Ministry of Food Processing Industries said that New Zealand and Saudi Arabia are partner countries of the World Food India 2025, and focus countries are Russia, UAE, Japan and Vietnam. Over 1700 exhibitors, more than 500 international buyers, and representatives from over 100 countries attended the event.

Celebration of World Food Day by ISAE, Odisha chapter on 16-10-2025

The World Food Day was celebrated by ISAE, Odisha chapter on 16-10-2025 at College of Agricultural Engineering and Technology, OUAT, Bhubaneswa. Prof. A. P Sahoo, Dean of the college, ISAE members and students participated in the programme. At the outset, Dr. (Mrs.) M. Mohapatra, Vice-Chairman (Technical) delivered the welcome address.

Dr. U. S. Pal, Secretary, Odisha chapter briefed about the objectives of World Food Day celebration and the importance of prevention of food loss and waste to meet the goal of zero hunger. Prof. J. N. Mishra, Chairman, ISAE Odisha chapter highlighted the role of Agricultural Engineers to meet the sustainable development goal of United Nations. He also briefed the students about ISAE and encouraged them to be the student member of ISAE. A poster presentation competition on "Innovative concepts on Food Loss and Waste Reduction" was organized for the students and nine groups participated in the competition. Prizes were awarded to first three positions and certificates were given to all the participants. Er. A. Behera, Joint Secretary-cum-treasurer, ISAE Odisha chapter offered the formal vote of thanks.



World Food Day 2025

Division of Food Science and Postharvest Technology, ICAR-Indian Agricultural Research Institute celebrated World Food Day 2025

The Division of Food Science and Postharvest Technology, ICAR-Indian Agricultural Research Institute celebrated World Food Day 2025 to commemorate the 80th Anniversary of the founding of the Food and Agriculture Organization of the United Nations (FAO) eight decades dedicated to the vision of a world free from hunger.



The celebration highlighted the critical role of postharvest technologies in reducing food loss, improving nutritional quality, and ensuring food reaches consumers safely and efficiently. By integrating innovative postharvest interventions with sustainable food systems, ICAR-IARI continues to contribute to national and global food security goals.

The event, organized under the global theme 'Hand in Hand for Better Foods and a Better Future,' underscored the importance of collaboration to strengthen global food security. It reflected ICAR-IARI's ongoing commitment to developing innovative agricultural and postharvest technologies that benefit farmers and consumers alike while promoting healthier and sustainable lives.

Dr. Shyam Narayan Jha, Deputy Director General (Agricultural Engineering), ICAR, emphasized food as a fundamental human right and highlighted the need to ensure healthy eating practices. He encouraged students to align their research with societal and regional priorities to contribute meaningfully to India's developmental journey towards 2047. Dr. Viswanathan Chinnusamy, Joint Director (Research), ICAR-IARI, highlighted ICAR-IARI's ongoing research on biofortified crops as a key strategy to combat micronutrient deficiencies and enhance the nutritional security of the population.

Dr. V. B. Patel, Assistant Director General (Horticulture), ICAR; and Dr. P. S. Brahmanand, Project Director, WTC, ICAR-IARI, also graced the occasion. They emphasized the critical role of sustainable agricultural practices in ensuring the availability of nutritious and affordable food for all.

In addition to its research excellence, ICAR-IARI continues to play a pivotal role in capacity building and knowledge dissemination through training programs for farmers and extension workers, encouraging the adoption of sustainable and efficient postharvest management practices.

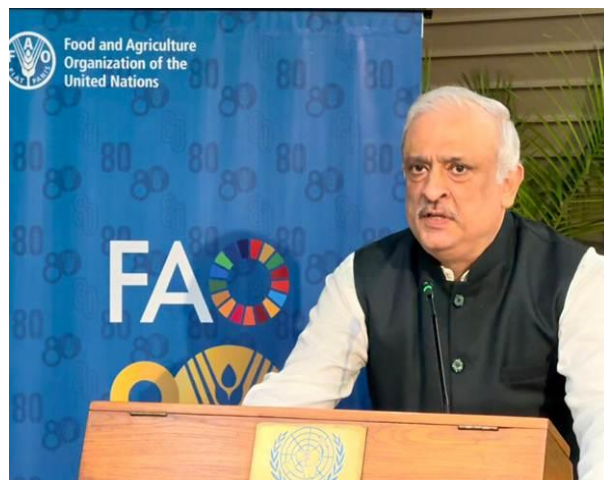
By celebrating World Food Day 2025, ICAR-IARI reaffirmed its commitment to collaborative action, ensuring that no one is left behind in the collective effort to build a sustainable and equitable food future.

Source <https://icar.org.in/en/icar-iari-celebrates-world-food-day-2025>

World Food Day 2025

FAO Celebrates 80 Years of Partnership with India on World Food Day 2025

Dr. Devesh Chaturvedi, Secretary, Ministry of Agriculture & Farmers Welfare, delivered the keynote address on the occasion of World Food Day 2025, which also marked the 80th anniversary of the Food and Agriculture Organization of the United Nations (FAO). In his address, the Secretary recognized FAO's technical expertise and enduring partnership with the Ministry in achieving self-sufficiency in food grains, promoting crop diversification, and enhancing farmer resilience through innovation and sustainable practices. He emphasized that the future must focus on nutrition-sensitive agriculture, ensuring diets that are healthy, diverse, safe, and affordable for all.



Dr. Chaturvedi observed that from food-deficient beginnings at the dawn of independence, India has transformed into a food-surplus nation that feeds 1.4 billion people and contributes significantly to global food security. This transformation, he said, has been driven by visionary policies, scientific innovation, and strong international collaboration spearheaded by the Ministry in close partnership with FAO. As a founding member of FAO since 1945, India's journey exemplifies how hunger and malnutrition can be reduced at scale when production systems, delivery mechanisms, and policy innovation work together in harmony.

The Secretary highlighted that despite possessing less than four percent of the world's agricultural land and freshwater resources, India has achieved national food self-sufficiency and maintained price stability through mechanisms like public stockholding and the Minimum Support Price (MSP). These systems ensure affordable food access for over 800 million people under the National Food Security Act, reflecting India's rights-based approach to food security.

He further underlined that India's agricultural progress is anchored in its 146 million small and marginal holdings, which form the backbone of rural livelihoods. Targeted interventions in stress-tolerant seeds, concessional credit, crop insurance, and climate-smart practices have enhanced productivity, resilience, and incomes. Reaffirming India's commitment to sustainability and climate adaptation, the Secretary highlighted the country's initiatives in micro-irrigation, integrated and natural farming, organic agriculture, and the development of digital public infrastructure such as AgriStack, which empower farmers with technology and real-time data.

A highlight of the event was the release of FAO's coffee table book, "Sowing Hope, Harvesting Success," which chronicles FAO's eight-decade-long journey and its milestones in agriculture and allied sectors with India.

World Food Day 2025

The event was graced by Mr. Shombi Sharp, United Nations Resident Coordinator in India, and Mr. Takayuki Hagiwara, FAO Representative in India. Mr. Sharp noted that “the story of FAO in India is also the story of India’s rise as a global agricultural leader,” while Mr. Hagiwara reaffirmed FAO’s commitment to supporting India’s vision of Viksit Bharat by 2047.

Aligned with this year’s World Food Day theme — “Hand in Hand for Better Food and a Better Future”, the celebration brought together senior officials from the Government of India, representatives of United Nations and Rome-based agencies, development partners, and farmers from across the country.

In conclusion, Dr. Chaturvedi reiterated that global food challenges require global solutions rooted in local realities, and called for deeper international cooperation, open knowledge-sharing, and collective action towards achieving the Sustainable Development Goals (SDGs). He extended warm greetings on World Food Day and wished everyone a happy and prosperous Diwali.



Success Story: Technology-Enabled Farmer Producer Organizations Driving Rural Enterprise Transformation in NCR

India's small and marginal farmers who account for over 85% of all agricultural holdings form the backbone of national food security. Yet, they continue to face deep-rooted challenges such as fragmented landholdings, low productivity, limited access to post-harvest infrastructure, and weak market linkages. To overcome these systemic barriers, the Farmer Producer Organization model has emerged as a transformative mechanism that enables collective production, value addition, and enterprise-led rural development.



With institutional support from NABARD, ICAR–Indian Agricultural Research Institute, and allied partners, FPOs in the National Capital Region are being redefined as technology-integrated agri-enterprises, driving Atmanirbhar Krishi and sustainable rural industrialization. Two such FPOs Adhirayansh Organics Producer Company Ltd. in Palla, Delhi, and Hodal Farmers' Producer Company Ltd. (HFPCCL) in Palwal, Haryana stand out as exemplary models demonstrating how innovation, technology, and collective entrepreneurship can reshape smallholder agriculture into profitable, sustainable, and resilient enterprises.

Solar-Powered Cold Storage and Digital Agriculture: The Adhirayansh Organics Model

Registered in 2021, AOPCL operates under the project “Off-Grid Clean Energy Cooling for Affordable Storage of Perishables for BOP Farmers”, implemented jointly with ICAR–IARI and USAID, with financial facilitation from NABARD. The centerpiece of this initiative is the Pusa Farm SunFridge a solar-powered cold storage system designed to preserve perishable commodities efficiently and affordably.

The system, with a large capacity and a temperature range of 4–15°C for 7–10 days, operates on a hybrid solar and off-grid power supply, ensuring uninterrupted functioning even in areas with irregular electricity. This innovative cold storage has dramatically reduced post-harvest losses by up to 70% while improving farmer incomes by 25–35%.

In addition, AOPCL has adopted IoT-based AgroTrace technology for real-time crop monitoring. Sensors track temperature, humidity, and crop growth data, enabling farmers to optimize harvest timing and storage schedules. The integration of renewable energy and digital monitoring not only ensures better product quality and shelf life but also provides employment opportunities to rural youth, promotes climate resilience, and serves as a replicable model for peri-urban vegetable clusters across India.



Success Story: Technology-Enabled Farmer Producer Organizations Driving Rural Enterprise Transformation in NCR

Diversified Enterprises Empowering Rural Livelihoods: The Hodal FPO Experience

Established under the Companies Act and supported by NABARD, Hodal Farmers' Producer Company Ltd. (HFPCCL) has evolved into a multi-enterprise FPO managing operations across Maholi and Hodal villages in Palwal district, Haryana. Under the ICAR-IARI project "Assessment and Out scaling of ICAR-IARI Technologies for Enhancing Farm Income" (CATAT) and technical guidance from CIMAP, Lucknow, the FPO has diversified its business portfolio to include lemongrass essential oil extraction, mustard oil expelling, and a Custom Hiring Centre (CHC).

Alongside enterprise development, HFPCCL has strengthened local input and seed systems, obtained a fertilizer license, and supplies certified high-yielding varieties to its members. Through farmer participatory seed multiplication programs, it ensures the timely availability of quality seeds while maintaining varietal purity. The adoption of balanced fertilization, precision sowing, and integrated pest management has enhanced productivity and resource efficiency, improving the overall socio-economic resilience of member farmers.

Lemongrass Oil Enterprise: Turning Aromatic Crops into Profitable Ventures

Among HFPCCL's flagship ventures, lemongrass cultivation and oil extraction stand out as a model of value addition through scientific management. Farmers cultivate the high-yielding cultivar Pragati (LS48), known for its superior oil content and quality. The harvested biomass is processed through a 500-liter direct steam distillation unit, completing a batch in about 3.5–4 hours with an impressive oil recovery rate of 0.4% (4 kg per tonne of fresh biomass).

The resulting lemongrass oil, rich in citral (74–78%), meets international standards and is in demand across cosmetic, fragrance, and pharmaceutical industries. Economically, the enterprise yields a gross income of ₹1.56 lakh per hectare against a total cost of ₹50,178, delivering a net return of ₹1.06 lakh per hectare and a B:C ratio of 3.12. Beyond profitability, the model supports sustainable agriculture, requiring minimal chemical inputs and improving soil health, making it a replicable livelihood model for smallholders venturing into high-value aromatic crops.

Community-Based Mustard Oil Expeller: Local Value Addition for Higher Returns

HFPCCL's community oil expeller model has empowered farmers to process their own mustard produce, transforming a basic crop into a profitable value-added product. From 1,900 kg of mustard seed per hectare, farmers extract about 785 liters of oil (recovery rate: 37–38%), valued at ₹195 per liter, and 1,178 kg of mustard cake, a nutritious livestock feed, sold at ₹3 per kg. Together, the enterprise generates a gross revenue of ₹1.56 lakh per hectare against a total cost of ₹50,178, yielding a net return of ₹1.06 lakh and a B:C ratio of 3.12.

Compared to selling raw seed, which provides only a net return of ₹58,500, value addition through processing nearly doubles profitability, while creating local jobs, encouraging entrepreneurship, and ensuring efficient use of by-products. The model exemplifies inclusive agro-enterprise development, combining financial viability with community empowerment.

Success Story: Technology-Enabled Farmer Producer Organizations Driving Rural Enterprise Transformation in NCR

Custom Hiring Centre: Mechanization for All

To address the challenges of limited access to farm machinery, HFPCCL established a Custom Hiring Centre (CHC) that rents modern agricultural equipment to small and marginal farmers at affordable rates. Services include ploughing, rotavation, sowing, spraying, threshing, and residue management, offered at nominal hourly charges.

With a total investment of ₹10 lakh, the CHC generates an annual gross income of ₹5.4 lakh and a net return of ₹3.8 lakh, achieving capital recovery within 2.6 years. Beyond profitability, the CHC reduces labor dependency, enables timely and precise field operations, and enhances productivity across member farms. It also promotes shared resource use, minimizes idle machinery, and strengthens the FPO's role as a rural service hub for mechanization and agricultural innovation.

Impact and Replicability

The experiences of AOPCL and HFPCCL collectively underscore how technology-enabled FPOs can serve as catalysts of rural transformation. By integrating clean energy solutions, digital tools, value-added processing, and inclusive mechanization, these organizations have demonstrated that smallholders can move beyond subsistence farming to become agri-entrepreneurs.

Their success stories highlight a synergistic model of institutional collaboration where NABARD's financial facilitation, ICAR-IARI's technological support, and farmers' collective enterprise converge to drive sustainable, profitable, and inclusive rural industrialization. Together, these FPOs exemplify the future of Atmanirbhar Krishi where innovation, sustainability, and community empowerment go hand in hand to shape a resilient rural economy.



(Source: <https://icar.org.in/en/technology-enabled-farmer-producer-organizations-driving-rural-enterprise-transformation-ncr>)

Completed Events



**MAHAMAYA COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY,
AMBEDKAR NAGAR, U.P. - 224122**

ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, AYODHYA

**ONE DAY NATIONAL WEBINAR ON
NEXT-GEN FARMING: INTEGRATING MATHEMATICAL INSIGHT
WITH AI INNOVATIONS**



CHIEF PATRON
COL. (PROF.) BIJENDRA SINGH
VICE CHANCELLOR
ANUAT,
AYODHYA



PATRON
PROF. N.C. SHAHI
DEAN, MCAET

On the occasion of the Golden Jubilee of Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, we are organizing a webinar on "Next-Gen Farming: Integrating Mathematical Insight with AI Innovations". The session will focus on sustainable practices and innovative agriculture, leveraging Artificial Intelligence and Machine Learning algorithms to transform Indian agriculture and contribute to building a developed nation.

 **KEY NOTE SPEAKERS**

Dr. Sudhakar Tripathi
HoD, Department of Information Technology,
REC Ambedkar Nagar

Dr. Sumati Mahajan
Associate Professor,
PEC Chandigarh

Dr. Anuraj Singh
Associate Professor,
ABV-IITM, Gwalior

Dr. Amrendra Singh Yadav
Assistant Professor,
ABV-IITM, Gwalior

Chairman
Dr. B.K. Yaduvanshi

Co-Chairman
Dr. V.K. Singh
Dr. Vipul Chaudhary

Organizing Secretary
Dr. P.K. Mishra

Co-Organising Secretary
Dr. Manish Kumar

Joint Organising Secretary
Dr. Neeraj Kumar Singh
Dr. Prabhakar Shukla

Convenor
Dr. Ankit Parwaliya
Er. Lalit Kumar

Technical Committee Chairman
Dr. Vikas Kumar
Singh

Anchoring Committee Chairman
Dr. Paul Arjun
Sanjay

**Press and Media Committee
Chairman**
Dr. Shivam

**Food & Refreshment Committee
Chairman**
Dr. Manish Kumar

MEMBERS

Mr. Pradeep Singh Mr. Shudhanshu Pandey Mr. Nikhil Kumar Sharma Mr. Prashant Kumar Maurya

Registration Link: <https://forms.gle/MSPsBAtsjYUQkhQU6>

 **Saturday**
27 Sep, 2025

Expected participants: scientist faculty members and students from various research institutes and universities along with some policy planners and administrators. All participants shall register online and attend the webinar on Google platform.



Completed Events







MAHAMAYA COLLEGE OF AGRICULTURAL ENGINEERING & TECHNOLOGY
AMBEDKAR NAGAR, U.P. - 224122
ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, AYODHYA

TWO DAYS NATIONAL WEBINAR ON
Precision Farming and Sustainability in Agriculture:
A Pathway to Viksit Bharat@2047



CHIEF PATRON
Dr. Bijendra Singh
 Vice Chancellor
 ANDUAT, Ayodhya



PATRON
Dr. N.C. Shahi
 Dean, ICARET

On the occasion of the Golden Jubilee of ANDUAT, Ayodhya, we are organizing a webinar on "Precision Farming and Sustainability in Agriculture: A Pathway to Viksit Bharat@2047." The session will focus on modern technologies, sustainable practices, and innovations that can transform Indian agriculture and contribute to building a developed nation by 2047. Join us to explore the future of farming and celebrate this historic milestone together.

KEY NOTE SPEAKERS

 Dr. K. P. Singh A.D.G. (Farm Engineering) ICAR, New Delhi Topic: Agricultural Mechanization Strategies in India for 2047	 Dr. P. K. Sahoo Head & Principal Scientist Division of Agricultural Engineering ICAR-CRI, New Delhi Topic: Modernizing Farm Mechanization For Digital Agriculture
 Dr. Ajai Singh Dean, SET Central University of Jharkhand, Ranchi Topic: Environmental Sustainability- A Key to Water Management	 Dr. V. K. Bhargav Project Coordinator (E&A) ICAR - CIAE, Bhopal Topic: Next Generation Renewable Energy Technology for Carbon Footprint Reduction in Agriculture
 Mr. Prashant Dubey Deputy General Manager BIRD, NABARD, Lucknow Topic: Climate Change, Agriculture and Sustainable Financing Pathways	 Dr. Navneet Kumar Principal Scientist (ESSMD) ICAR - NAARM, Hyderabad Topic: Digital Transformation in Sustainable Agriculture
 Dr. Atul Mohod Dean, CAET DBSKV, Dapoli, Maharashtra Topic: Solar PV Energy for Future Sustainable Agriculture	 Dr. Subir Kumar Chakraborty Principal Scientist ICAR - CIAE, Bhopal Topic: Pre and Postharvest Mechanization in Digital Agriculture Envisions

About the Webinar:

The webinar "Precision Farming and Sustainability in Agriculture: A Pathway to Viksit Bharat@2047" is being organised to provide a comprehensive understanding of how modern technologies and sustainable practices can transform Indian agriculture and contribute to the nation's development goals. It covers the evolution of agriculture and the importance of sustainability, followed by in-depth knowledge of precision farming technologies such as GIS, remote sensing, drones, IoT, AI, and smart machinery for efficient crop management. The webinar emphasizes resource-use efficiency through precision irrigation, soil health monitoring, renewable energy integration, and climate-smart practices like resilient crop varieties, organic farming, agroforestry, and waste recycling. Learners will also explore the role of digital agriculture, blockchain, farmer-producer organizations, and agri-tech innovations in creating transparent and profitable systems. Alongside, the program highlights policy frameworks, government schemes, farmer empowerment, and the role of research institutions and startups in shaping the future of farming. Ultimately, the course envisions agriculture as a key driver of food security, economic growth, and environmental protection, aligning with the broader mission of building a self-reliant and globally leading Viksit Bharat by 2047.

Completed Events

The Indian Society of Agricultural Engineers (ISAE) invites you to an insightful **webinar** on: **Future Prospects in Solar Renewable Energy Segment**, on Saturday, 18 October 2025

The webinar was Organized by : Mrs. Madhuri Ghugari, Director, ISAE (Industry, Startups & Entrepreneurship)

This session will explore the emerging opportunities, challenges, and innovations shaping the **solar renewable energy sector**, especially in the context of sustainable agriculture and industrial applications.

**ISAE** INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

WEBINAR

FUTURE PROSPECTS IN SOLAR RENEWABLE ENERGY SEGMENT

 **Saturday, 18 October**
11 AM

Speaker :

MR. SATISH KHADSE

Executive Manager, Green Energy Division
Jain Irrigation Systems Ltd



Organised By :

MRS. MADHURI GHUGARI

Director ISAE (Industry, Startups & Entrepreneurship)

Who can join :

- All ISAE Members
- Academicians
- Agricultural Students
- Industry

 **Let's Join**

<https://meet.google.com/fnm-cqfz-kph>

Completed Events



“One-Day Workshop on Integrated Groundwater and Surface Water Modelling Using MIKE SHE and FEFLOW”

About the IISWC

The ICAR-Indian Institute of Soil and Water Conservation (ICAR-IISWC) (Formerly CSWCRTI) was established on 1st April 1974 with Headquarters at Dehradun by combining Soil and Water Conservation Research, Demonstration and Training Centres, which were established in the 1950s at Dehradun, Kota, Bellary, Udhagamandalam, Vasad, Agra and Chandigarh. These centres were initially established by the Govt. of India and transferred to the Indian Council of Agricultural Research (ICAR) on 1st October 1967. Subsequently, two new Research Centres were added to the CSWCRTI, one at Duttia in M.P. (18th September 1986) to tackle soil and water conservation problems of Bundelkhand region and another at Koraput in Orissa (31st January 1992) to address the problems of shifting cultivation areas. The Institute and Research Centres have focused on evolving strategies for controlling land degradation following a watershed approach, tackling special problems such as ravines, landslides, mine spoils and torrents, demonstration of technologies for popularisation and imparting training, besides developing technologies for water harvesting and recycling. From 1974 onward, the Institute pioneered in operationalising the watershed concept through four Operational Research Projects at Sukhomajri (Haryana), Nada (Chandigarh), Fakot (Tehri-Garhwal in Uttarakhand), and G.R. Halli (Chitradurga, Karnataka). The success of the watershed management programmes also attracted many international agencies like the World Bank, ICIMOD, EEC, DANIDA, KfW Germany, SIDA and the Swiss Development Corporation for collaboration and funding support. The research and training experience of the Institutes and their Research Centres is being utilised by the Ministries of Agriculture, Rural Development, Environment & Forests, and various Central and State departments in their developmental programmes.

Aim of the Workshop

The primary aim of this workshop is to share knowledge and practical insights into integrated groundwater and surface water modelling, a key aspect of sustainable water resources management. Participants will gain exposure to DHI's advanced numerical modelling tools MIKE SHE and FEFLOW, widely adopted for simulating surface water hydrodynamics, groundwater flow, and solute transport processes across scales.

Overview of Hydrological and Hydraulic Modelling

MIKE SHE, developed by DHI, it covers the entire land phase of the hydrological cycle — from rainfall and infiltration to groundwater recharge and river flow. Typical applications include:

- Integrated catchment hydrology and water balance studies
 - Surface water-groundwater interaction analysis • Irrigation and drought management
 - Groundwater contamination and nutrient fate analysis
 - Wetland management and restoration
 - Floodplain and climate change impact assessments
- MIKE SHE provides a flexible, process-based framework with multiple numerical methods for each hydrological process.

FEFLOW OVERVIEW

It is a comprehensive subsurface flow and transport simulation software, and includes:

- Groundwater management and sustainability assessment
 - Mine dewatering and hydrodynamics
 - Saltwater intrusion and contaminant transport
 - Geothermal energy and heat transport modelling
 - Simulation of variably saturated flow conditions
- With a powerful graphical interface, advanced visualization, and robust computational engine, FEFLOW provides unmatched reliability and precision for groundwater and porous media simulations.

CLIMATE MODELLING

Climate modelling involves simulating the Earth's climate system using mathematical models to understand past trends and predict future climatic conditions. It helps assess the impacts of temperature, precipitation, and extreme events on hydrological and ecological processes.

KEY DATE

Date: 30 October 2025

VENUE

Indian Institute of Soil & Water Conservation (IISWC), Dehradun

REGISTRATION

Free (Limited Seats Available. Participation is subject to confirmation by the organisers)

Click Link for Registration:

[FALpQLSfSiKswYlb6P2moBrH0V86DxTE3LTkRKgYn48ASLXioFvV4A/viewform](https://www.dhigroup.com/Registration/FALpQLSfSiKswYlb6P2moBrH0V86DxTE3LTkRKgYn48ASLXioFvV4A/viewform)

ORGANIZING COMMITTEE:

Dr M. Madhu

Director,

ICAR – Indian Institute of Soil & Water Conservation, Dehradun

Dr R.K Singh

Head, Division of Hydrology and Engineering

ICAR – Indian Institute of Soil & Water Conservation, Dehradun

Dr. Ambrish Kumar

Principal Scientist, Division of Hydrology and Engineering

ICAR – Indian Institute of Soil & Water Conservation, Dehradun

Email: aktswc@gmail.com

Supported by

Mr. Abhilash Ajaykumar

Managing Director, DHI (India) Water & Environment Pvt. Ltd. Delhi, India

Dr. Subramani Ravi

Sr. Technical Support Engineer,
DHI (India), Water & Environment Pvt. Ltd.
+91 8178996603

Email: suba@dhigroup.com



**ICAR-Indian Institute of Soil and Water Conservation, 218-
Kaulagarh Road, Dehradun (India) -248 195**

Upcoming Events

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS (ISAE)



celebrating
50
ICAR-CAE
1976-2026
*Golden Years of Engineering
in Indian Agriculture*



प्रशासकीय भवन
ADMINISTRATIVE BLOCK

**10-12
NOV., 2025**

FINAL CALL

Conference Official Website
<https://isae2025ciae.eventsdashboard.in/>

59TH ANNUAL CONVENTION
on
Engineering Innovations for Agriculture 5.0

Jointly organized by

Indian Society of Agricultural Engineers, New Delhi

ICAR-Central Institute of Agricultural Engineering, Bhopal

ICAR-CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING
NABI BAGH, BERASIA ROAD, BHOPAL-462038 (M.P.)

Upcoming Events



ASCI
Agriculture Skill Council of India

CEFMI
Centre of Excellence for
Farm Mechanization Skills in India

A Roundtable on

**Mechanization for Climate
Resilient Agriculture**

Organized By:

Centre of Excellence for Farm Mechanization Skills in India (CEFMI)

Date: 10th November 2025

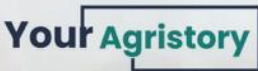
Venue: Magnolia Hall, Indian Habitat Center, New Delhi

Time: 9:00 AM – 2:00 PM

Knowledge Partner



Media Partner



OUR INSTITUTIONAL MEMBERS



Upcoming Events

**INTEGRAL UNIVERSITY**
LUCKNOW - INDIA

A⁺ ACCREDITED
BY NAAC





INTERNATIONAL CONGRESS ON UNLOCKING ARTIFICIAL INTELLIGENCE & ROBOTICS DRIVEN SMART AGRICULTURE FOR VIKSIT BHARAT

AIRSA-VBCON 2025

 **22 -23 DECEMBER 2025**

THEMATIC AREAS

- Predictive Agriculture: AI-Enabled Smart Farming for the Future
- AI and Robotics in Veterinary Science & Livestock Management
- AI-Enabled Agri-Supply Chains and Market Intelligence for Food Security
- AI-Powered Urban Agriculture & Vertical Farming for Smart Cities
- AI & Robotics for Climate-Resilient and Sustainable Agriculture





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DIAMOND

ORGANIZED BY

**Uttar Pradesh Council of Agricultural Research (UPCAR), Lucknow
& Integral Institute of Agricultural Science & Technology (IIAST)**

VENUE : CENTRAL AUDITORIUM, INTEGRAL UNIVERSITY, LUCKNOW
Contact : +91- 9450 30 3285 | Email : airsa25@iulac.in

Upcoming Events

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TRAINING PROGRAMME ON



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ICAR - CENTRAL INSTITUTE FOR RESEARCH ON COTTON TECHNOLOGY

ADENWALA ROAD, MATUNGA (EAST), MUMBAI, MAHARASHTRA - 400 019

CIRCOT.ICAR.GOV.IN

Upcoming Events



भारत
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ICAR-CIRCOT/TRG/2025/25/Leaflet

Celebrating
100
Years
ICAR-CIRCOT



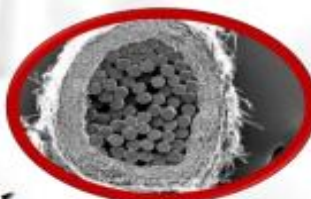
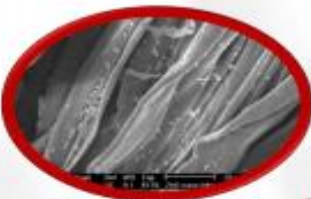
ISO 9001:2015

ICAR-CIRCOT Training on

नैनो प्रौद्योगिकी के अनुप्रयोगों में उन्नतियाँ

Advances in Applications of Nanotechnology

(Self-Sponsored)



NANOTECHNOLOGY

Date: Nov 10-14, 2025

Venue: ICAR-CIRCOT, Mumbai

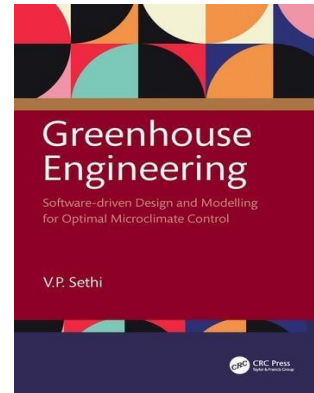
Organized by

भा. कृ. अनु. प. – केंद्रीय कपास प्रौद्योगिकी अनुसंधान संस्थान
ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT)
D.A.R.E., Ministry of Agriculture & Farmers Welfare, Govt. of India
Adenwala Road, Matunga, Mumbai 400019 (MS) INDIA

Achievements

Dr V P Sethi, Head, Dept of Mechanical Engg, PAU Ludhiana have published an international book "Greenhouse Engineering

Dr V P Sethi, Head, Dept of Mechanical Engg, PAU Ludhiana have published an international book "Greenhouse Engineering: Software-driven Design and Modelling for Optimal Microclimate Control" Published by CRC USA. The book presents latest developments and approaches and uses Python based solutions for numericals and is being considered as the first of its kind unique book in this era when use of software and AI/ML and IoT have become utmost important for resource optimization and decision support systems for farmers for optimized use of resources to increase their income.



The comprehensive software-based approach in this book provides an in-depth exploration of the latest innovations in greenhouse engineering, thus transforming the existing Controlled Environment Agriculture (CEA) to a futuristic Greenhouse Smart Agriculture (GSA), aiding the reader to optimize crop yields, reduce environmental impact, and enhance farm profitability through software decision support systems. From renewable energy solutions and software-driven sustainable practices to AI-powered optimization and integrated smart greenhouse design, it covers the entire spectrum of GSA, including practical knowledge, global case studies, and real-world examples.

Key features:

- ✓ Explores innovative renewable energy solutions for Greenhouse Smart Agriculture
- ✓ Implements software-driven sustainable solutions for optimized crop yields and reduced environmental impact
- ✓ Develops innovative control strategies for Greenhouse Smart Agriculture using artificial intelligence, the Internet of Things, and advanced techniques
- ✓ Optimizes greenhouse production through modelling and simulation techniques for enhanced sustainability
- ✓ Designs and implements sustainable greenhouse climate control systems for heating, cooling, and energy efficiency
- ✓ Creates integrated smart greenhouse systems that combine automation, renewable energy, and sustainable design
- ✓ Harnesses the power of artificial intelligence, the Internet of Things, and data-driven approaches to enhance greenhouse optimization and sustainable agriculture
- ✓ Integrates smart soilless greenhouse agriculture and aquaponics using a design-to-software approach
- ✓ This book is aimed at university and greenhouse industry researchers, agricultural engineers, and graduate students in fields such as agriculture, agricultural and biosystems engineering, horticulture, environmental science, and renewable energy, as well as professional agricultural policymakers.

New Members

Life Members

Membership No.	Name of Members
LM-14204	Er. Anchal Jaiswal
LM-14205	Dr. Kanhaiya Thakur
LM-14206	Dr. Saurabh Ratra
LM-14208	Er. Shubham Yadav
LM-14209	Dr. Vishavjeet Singh Hans
LM-14210	Dr. Basharat Nabi Dar
LM-14211	Dr. Sukhmeet Singh
LM-14213	Dr. Sujata Sethy
LM-14214	Dr. Dhiraj Kumar Yadav
LM-14215	Dr. Chwadaka Pohshna
LM-14216	Dr. Shubham Chandrakar
LM-14217	Er. Suresh Kumar Parmar
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LM-14220	Er. Sunilkumar Gathekar
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LM-14223	Er. Adarsh Kumar
LM-14224	Er. Anjali Yadav
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LM-14227	Er. Sunilkumar Gathekar
LM-14228	Er. Anushka Jurri
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LM-14230	Er. Rushikesh Talole
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LM-14232	Dr. BHAWANA NEGI
LM-14233	Dr. Narender .
LM-14234	Dr. Vijay Mahore
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LM-14236	Er. Reetesh kumar Pyasi
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LM-14239	Er. Venkanna Jagatti
LM-14240	Dr. Abhishek Shukla
LM-14241	Dr. Harshaj Singh Tuteja
LM-14242	Er. akkula Kantha Rao
LM-14243	Dr. Sanjana Pandey
LM-14244	Dr. Murali S

New Members

Life Members

Membership No.	Name of Members
LM-14245	Er. Genitha Immanuel
LM-14246	Er. Uday Kore
LM-14247	Dr. Manpreet Kaur Saini
LM-14248	Er. Apoorva Sharma
LM-14249	Dr. Santosh Sahane
LM-14250	Er. Prashant Konde
LM-14251	Dr. Vigneshwaran Nadanathangam
LM-14252	Er. Koduru Koteswara Rao
LM-14253	Er. Koduri Madhu Malathi
LM-14254	Dr. Vigneshwaran Nadanathangam
LM-14255	Dr. Vigneshwaran Nadanathangam
LM-14256	Er. Sajja Poojith

Annual Members

Membership No.	Name of Members
AM-7038	Er Aanchal Chandrakar
AM-7039	Er Aanchal Chandrakar
AM-7040	Er Vishwanath
AM-7041	Dr KAPIL VERMA

Institutional Members

Membership No.	Name of Members
IM-42	Dr. Dinesh B. Shakyawar
	Director, NINFET, Kolkata National Institute of Natural Fibre Engineering and Technology, Kolkata-700040

Corporate Members

Membership No.	Name of Members
CM-112	M/s. Rohit Krishi Industries Pvt. Ltd.

New Members

Student Members

Membership No.	Name of Member
SM-7392	JOGA KANAKA VARSHINI
SM-7393	RITHISH R
SM-7394	MADHANRAJ C
SM-7395	BARATHSRINIVASAN A
SM-7396	Mahak Onker
SM-7397	ROHITKUMAR BHARADAVA
SM-7399	Poonam Kakade
SM-7400	Durgesh Barange Barange
SM-7401	Arvind Kumar
SM-7402	INDHURAJ L
SM-7403	NITHISH P
SM-7404	SIVAGURA V
SM-7405	Dheenadhayalan K
SM-7406	Harini B
SM-7407	Abinaya A
SM-7408	NEHA S
SM-7409	HEMA SANTHIYA N
SM-7410	RAJAMADHUMITHA V
SM-7411	SUMITHRA B
SM-7412	KANIMOZHI N
SM-7413	PREETHI K
SM-7414	GURU DEVA G
SM-7415	Shrivathssan S
SM-7416	Poornashri N
SM-7417	LOGESH R
SM-7418	DHARSHINI R
SM-7419	Logesh M
SM-7420	SNEHAVALLI D
SM-7421	Cinthamani I
SM-7422	KEERTHANA P
SM-7423	Suruthi K
SM-7424	BHAVATHARANI N
SM-7425	Thirilokchana A
SM-7426	Yoga sri R
SM-7427	SELVA REENA S
SM-7428	Asmi Baruah
SM-7429	SRIMATHI J
SM-7430	SELVANAYAKI S
SM-7431	KRISHNARAJAN S
SM-7432	SHIYAM SUNDAR SINGH T

New Members

Student Members

Membership No.	Name of Member
SM-7433	Ganga Sri M
SM-7434	Nishanthini R
SM-7435	karthikeyan S
SM-7436	AISWARYA M S
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