भाकृअनुप
ICAR

ICAR-CIAE

Newsletter

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FROM DIRECTOR'S DESK

The ICAR–Central Institute of Agricultural Engineering (CIAE) marked a significant milestone with the celebration of its 51st Foundation Day on 15–16 February 2026. The occasion was celebrated with great enthusiasm and dignity at the institute's campus, symbolizing over five decades of unwavering commitment of the institute to excellence in agricultural engineering research, innovation, education and technology dissemination. The inaugural ceremony on 15 February 2026 was graced by Shri Shivraj Singh Chauhan, Hon'ble Union Minister of Agriculture and Farmers' Welfare, as the Chief Guest. In his keynote address, Shri Chauhan highlighted the pivotal role of agricultural mechanization in enhancing productivity, improving resource-use efficiency, and augmenting farmers' income. The Foundation Day also witnessed the esteemed presence of Dr. M. L. Jat, Secretary (DARE) & Director-General, ICAR, and Dr. S. N. Jha, DDG (Agricultural Engineering), whose participation further underscored the significance of the occasion.

A major highlight of the celebrations was the inauguration of the Grain Processing Training Centre (GPTC), established with a budgetary support from the RashtriyaKrishiVikasYojana (RKVY) scheme through the Government of Madhya Pradesh. The centre is equipped with a comprehensive array of modern processing machinery, including destoner, air screen cleaner, specific gravity separator, indented cylinder, colour sorter, packaging units, mini rice and dal mills, millet mill, pulveriser, flour mill, dryer, oil mill, and more. With increasing emphasis on minimizing post-harvest losses and enhancing farmers' income, the establishment of GPTC marks a strategic step forward. The centre serves as a unique platform for demonstration, hands-on training in operation and maintenance, and understanding the economics of grain processing. Additionally, it includes a state-of-the-art lecture hall for structured training programmes.

In alignment with its mission of technological advancement, the institute has made notable innovations during the period from January to March 2026 with the development of several innovative machines and systems. Most significant of these is a cotton harvester with an on-board pre-cleaner, a battery-operated impact-type coffee harvester, a stand-alone continuous-feed banana fibre extractor developed in collaboration with NRCB, an instrumented spray patternator for testing drone spraying systems and many more.

ICAR-CIAE Celebrated 51ST FOUNDATION DAY

Institute celebrated 51st Foundation Day during 15-16 February, 2026 with great enthusiasm and dignity at its campus, marking over five decades of excellence in agricultural engineering research, innovation, and technology dissemination.

On 15 February, 2026, the programme was graced by Shri Shivraj Singh Chauhan, Union Minister of Agriculture and Farmers' Welfare, as the Chief Guest. In his keynote address, Shri Chauhan emphasized that agricultural mechanization is fundamental to enhancing productivity, improving resource-use efficiency, and increasing farmers' income. He underlined the Government of India's commitment to modernize agriculture through innovation, digital agriculture, precision farming, and climate-resilient technologies. He appreciated ICAR-CIAE's role in developing affordable and scalable mechanization solutions tailored for small and marginal farmers, women farmers, and rural entrepreneurs.

On this occasion, he inaugurated the Grain Processing Training Centre and released a brush type cotton harvester developed by the institute. He encouraged close coordination among research institutions, state agencies, manufacturers, and farmer groups to promote inclusive agricultural growth, along with capacity building and skill development for farmers and rural youth.

The function was chaired by Dr M. L. Jat, Secretary, DARE & Director General, ICAR and co-chaired by Dr S. N. Jha, Deputy Director General (Agricultural Engineering) ICAR.In his presidential and Prof. A. C. Pandya Memorial lecture, Dr. Jat underscored innovation-driven and climate-resilient mechanization as key pillars for future agricultural growth. The occasion also witnessed the release of Institute Publications highlighting contemporary advancements and future directions in agricultural mechanization.

Dr. Jha, delivered the Co-chairman's address focusing on strategic advancements and emerging opportunities in agricultural engineering. Former DDG (Engg.), ICAR, Dr. Nawab Ali; Dr. M M Pandey and Dr. N S Rathore also

graced the occasion and guided the institute. Welcoming the dignitaries and participants, Dr C. R. Mehta, Director, ICAR-CIAE, presented the institute's 50-year journey and highlighted its pioneering contributions in developing farmer-centric technologies, promoting sustainable mechanization, reducing drudgery, and generating significant socio-economic benefits for farming communities.

Input kits were also distributed to 500 SC farmers and felicitated a few progressive farmers, start-ups, manufacturers and media associated with the institute. An exhibition of Agricultural Engineering technologies by institute and MP Manufacturers was inaugurated, along with live demonstrations of advanced agricultural machinery.

The second day of the Foundation Day celebrations featured an engaging Industry–Academia Meet, which provided an important platform for interaction among researchers, industry representatives, entrepreneurs and startups. The deliberations focused on strengthening collaborations for technology commercialization, scaling-up innovations, fostering entrepreneurship, and accelerating the transfer of agricultural engineering technologies from laboratories to farmers' fields.

The concluding session of the celebrations included the distribution of prizes to winners of various sports competitions organized as part of the Foundation Day activities. The sporting events witnessed enthusiastic participation from staff members, students, and families. The prize distribution ceremony added a vibrant and celebratory dimension to the overall event.

As CIAE steps into its next phase, the institute remains steadfast in its commitment to innovation, inclusivity, and impact-driven research. The 51st Foundation Day not only celebrated past achievements but also reinforced the institute's vision of shaping a sustainable, mechanized, and prosperous agricultural future for the nation.

RESEARCH & DEVELOPMENT

Cotton harvester with on-board pre-cleaner

Manual cotton picking requires approximately 1560 man-hours per hectare. A low-cost, indigenous brush type cotton stripper with on-board pre-cleaner was developed to address this challenge. The tractor-mounted cotton stripper harvester consists of a pair of stripping heads with front mounting attachment, a main screw conveyor, a pneumatic conveying system with a 10 hp centrifugal blower, a hydraulic power transmission system, and an on-board pre-cleaner. The integrated pre-cleaning system reduces trash content in machine-harvested seed cotton to below 15%, comparable to the quality achieved by significantly more expensive spindle-type pickers.

The machine has an effective field capacity of 0.23 ha/h at 85% field efficiency and a forward speed of 1.5 km/h. Pre-harvest losses, harvesting losses, and mechanical picking efficiency are 0.14%, 4.18%, and 95.05%, respectively, with an overall picker efficiency of 96%. The total trash content in pre-cleaned cotton is 14.28 % on a seed cotton basis. The operational cost of machine is approximately ₹2,500 per hour, resulting in an overall harvesting cost of about ₹5 per kg, including cleaning charges, as compared to ₹15 -25 per kg under manual picking. The machine saves around 90% time and reduction in harvesting costs of 65%, offering a net saving of approximately ₹25,000 per hectare over manual methods. The estimated cost of the developed machine is ₹15 lakhs, substantially lower than the spindle-type cotton pickers. Overall, the cotton stripper harvester offers a practical, economical, and efficient solution for large-scale mechanized harvesting.

Unmanned multi-purpose electric vehicle for field

The unmanned vehicle is a battery-powered unit designed to operate efficiently in vineyard. The developed unit consists of chassis, main frame, transmission system, electronic control unit, remote control system, tray holding system and robotic arm platform. Four lugged rubber wheels driven by 24 V DC motors ensure traction and maneuverability. The Electronic Control Unit (ECU) manages critical operations, including speed, direction and braking. Commands are received via a remote controller. The vehicle was tested under field conditions to evaluate the performance of the mobility platform and control system. The vehicle responded effectively to remote control commands with minimal response time (0.4 s), while the ECU ensured precise regulation of speed, direction and braking. The vehicle also demonstrated stable navigation with minimal lateral deviation (less than 20 mm) during operation.

ICAR-CIAE-NRCB stand-alone continuous feed banana fibre extractor

Engine operated high-capacity continuous feed banana fibre extractor was developed for extracting fibre from banana pseudo-stem. It is operatedby an engine (5 hp). The main components of the developed equipment are stainless steel calendaring rollers, fibre beating assembly, teflon conveyor belt and fibre separator/pith remover. It hasan input capacity of 150-175 kg/h pseudo-stem outer sheath and output capacity of 4-6 kg /h dried fiber. The dried fibre recovery is 2.50 to 3.00%.

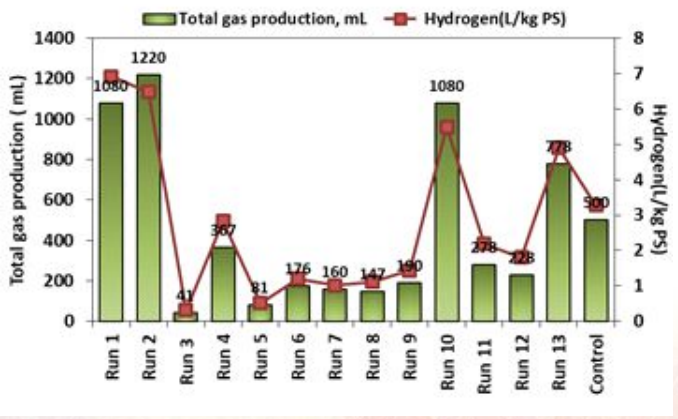
Instrumented spray patternator for testing of drone spraying system

Validating the uniformity of a drone's spray pattern is a critical step that has traditionally been performed manually, which is error prone, time-consuming and labour-intensive. Each test trials takes 20–30 min, making repetitive trials impractical and reduces accuracy. To address these challenges, an "Automated instrumented patternator" has been developed for testing of drone spraying systems.

The developed patternator measures 5 m in width and 3 m in length for the testing of drone spraying system. The patternator has 192 V-channelsof 25 mm in width, 28 mm in depth, and 1.6 mm in thickness with 3.2 mm radius of curvature. For collection of spray volume, total 170 transparent cylindrical glass tubes, each with a capacity of 200 ml are used. A flip mechanism has been provided to cut-off water flow into glass tube for spray volume measurement, which is operated with the help of two linear actuators. The patternatoris also equipped with computer vision based image capturing set up. Analysis and result interpretation are achieved with the help of computer vision driven web based patternator analysis software.

Solar PV integrated green house for horticulture

A prototype of a solar photovoltaic (PV)-integrated portable greenhouse was developed with a cultivation area of 7 m^2. The system comprised of eight PV panels (72 W, 48 V, 10% transparency) installed in a north–south orientation to optimize solar exposure. The greenhouse was utilized for the cultivation of high-value crops such as parsley and broccoli. The total capital cost of the prototype was ₹ 60,000. The annual electricity generation from the system was approximately 150 kWh. In comparison with conventional grid-based energy use, the PV-integrated greenhouse achieved an estimated reduction of 1.1 tonne of CO_2 emissions per year.



Millet grit making machine

Three value-added food products were developed to promote nutritious and sustainable alternatives using plant-based and millet ingredients. Millet-oat butter is a plant-based butter alternative prepared from millets, oats, almonds, and vegetable oils to achieve a texture and spreadability similar to conventional butter. The standardized 100 g formulation included oat flour, jowar flour, ragi flour, roasted almonds, desi ghee, olive oil, hot water, soy milk powder, garlic powder, cinnamon powder, salt, and orange peel powder. This combination provides a balanced proportion of carbohydrates, fats, and proteins while adding dietary fiber and antioxidants that are absent in regular dairy butter. Biscuits were prepared by utilizing soy okara, a by-product of soy milk and tofu production. The standardized formulation used soy okara, maida, ghee, powdered sugar, baking powder, baking soda, and salt. Nutritional analysis indicated about 9.3% protein, 63.17% carbo-hydrates, and 23.9% fat, making the biscuits nutrient-rich and energy-dense. The estimated production cost is around Rs.160 per kg. Millet-atta biscuits were developed using sorghum, foxtail millet, and wheat flour along with maida, milk powder, ghee, jaggery, and sugar. The biscuits contain about 7.3% protein and provide a nutritious, fiber-rich product with a production cost of approximately ₹207 per kg.

On-farm storage system for fresh agro commodities

A low cost, low energy indirect-direct evaporative cooling based storage system suitable for on-farm storage of fresh horticultural commodities has been developed. The storage unit has 1 tonne storage capacity and especially constructed using hollow bricks. The inner wall of the storage structure has been insulated using specially designed PU foam and polycarbonate sheet based paneling keeping in view of minimization of heat loss and maintain the inside storage temperature. The matching capacity of direct and indirect evaporative cooling units has been designed and integrated. At the optimized operating conditions, the hybrid system fetch the overall cooling effectiveness of 1.21±0.02with the minimum temperature drop in the tune of 18.3°C with relative humidity of 85.7% from the peak summer ambient temperature of 40°C and relative humidity of 25%. The shelf life of fresh cucumber in the developed system (HECS) enhanced up to 14 dayswith non-significant change in quality attributes however, it was 7 days in refrigerated storage condition and 4-5 days in control (RT) storage conditions. The cost of developed storage system is 3 lakhs and energy consumption of 1 kWh/t.

IoT enabled mini silo storage system for chickpea

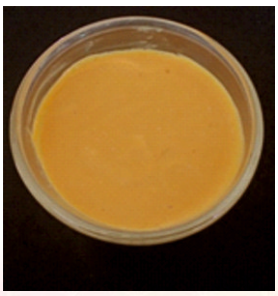
An IoT enabled automated aeration and CO_2 fumigation based mini silo system was developed for storage of chick pea with a capacity of 3 tonne and has been fabricated in SS. The silo consists of aeration system, fumigation system, feeding and discharge hopper and sensor placement cage. The aeration system operated automatically using fifteen DHT 22 sensors for real time monitoring of temperature and RH of storage micro environment and outside ambient conditions. The system is integrated with IoT in which real time cloud data of weather conditions considered for operation. The system will operate automatically only when environmental temperature ≤30°C, RH≤60% and precipitation prediction ≤50%. The CO_2 fumigation system is also integrated with CO_2 sensor to maintain the set concentration of CO_2 gas during fumigation. When the inside concentration drops below 10000 ppm solenoid value gets ON and again get OFF once concentration reach at set value. The storage study with chick pea grain inside the developed silo shows that, no any incidence of insect infestation for 6 months of storage without any significant effect of moisture content, protein content and textural attributes of the chick pea grains.

Vegan amrakhand -five healthy variants

Amrakhand is a popular mango-based dessert traditionally made from milk. In this study, a plant-based (vegan) version of Amrakhand was developed using soy milk. Five different variants of soy-based Amrakhand were developed and standardized viz probiotic, prebiotic, synbiotic, functional, and vegan Amrakhand. The base for all variants was fermented soy milk, which was processed to remove excess liquid and obtain a thick, curd-like material similar to traditional chakka. This soy chakka was then blended with mango pulp and sugar to give the familiar taste, texture, and aroma of Amrakhand.

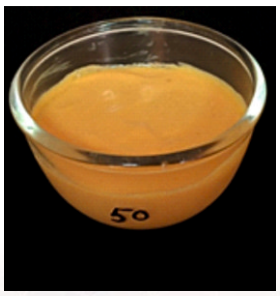
The probiotic soy Amrakhand was prepared by fermenting soy milk with beneficial bacteria such as Lactobacillus and Bifidobacterium. The prebiotic soy Amrakhand was enriched with natural fibres like inulin and fructooligosaccharides. The synbiotic soy Amrakhand combined both probiotics (good bacteria) and prebiotics (their food). The functional soy Amrakhand was enriched with dietary fibre and natural antioxidants from mango, while keeping sugar levels lower. Finally, the vegan soy Amrakhand was made entirely from plant-based ingredients, free from lactose and cholesterol.

It is suitable for vegans and people with milk intolerance, while still providing balanced nutrition and health benefits. Overall, this study shows that soy-based vegan Amrakhand can be a tasty, nutritious, and functional dessert, offering traditional flavors with modern health advantages.



Synbiotic Amrakhand

Probiotic Amrakhand



Vegan Amrakhand

Prebiotic Amrakhand

Vegan Functional Amrakhand

Technologies from AICRPs

Tractor operated Coleus forskohlii harvester

Coleus tuber harvesting is highly labour-intensive. About 75-100 labourers are required to harvest one hectare. To address these constraints, a coleus harvester integrating a cutter, digging blade, soil separation unit and tuber collection mechanism has been developed by AICRP on FIM-TNAU, Coimbatore centre to mechanize the entire harvesting operation. The developed coleus tuber harvester was tested under actual field conditions. Optimum conditions for operating the harvester were identified at operating depth of 200 mm and forward speed of 1.5 km/h. Field efficiency was 85% and digging efficiency was 96%. The cleaning efficiency was found as 70% whereas, the damage and un-dug tuber percentage was 1.5% and 2.6 %, respectively.

Semi-automatic feeding and conveying system for small dairy farms

The semi-automatic feeding and conveying system for small dairy farms was designed and developed at VNMKV, Parbhani centre, as a mechanized solution to improve feeding efficiency, reduce labour requirement, and minimize fodder wastage in cattle sheds. The system comprises a feed hopper (GI sheet, 1070 × 610 × 560 mm), a 7.6 m long belt conveyor system, 0.75kW electric motor, feeding troughs, control panel, discharge outlets, and a 2.24kW chaff cutter having 400–600 kg/h capacity. An automation unit with an Arduino Uno micro-controller and TF-Luna LiDAR sensor enables intelligent stop-and-resume operation based on obstacle detection, activating the conveyor via relay modules for controlled forward and reverse motion during feeding cycles. The experimental showed significantly higher feed intake under developed semi-automatic unit for dry (8.3 vs 7.3 kg/day), green (19.15 vs 17.35 kg/day), and concentrate feed (1.84 vs 1.30 kg/day), with reduced residue and wastage (8.53% vs 19.15%). The developed unit improved feed conveying efficiency, reduced wastage by 55%, saved 50% labour, and reduced feeding time by 93% compared to traditional feeding methods.

Yak saddle for transportation and evacuation of patient at high altitude

A scientific selection of the saddle pad was performed using three Multi-Criteria Decision-Making (MCDM) techniques, namely Weighted Product Method (WPM), Analytic Hierarchy Process (AHP), and TOPSIS. Five commercially available saddle pads (Mat-1 to Mat-5) were evaluated based on four critical criteriaviz thickness, weight per unit area, cost, and coefficient of friction (COF). Thickness, weight, and cost were treated as cost-type criteria (lower values preferred), whereas COF was considered a benefit-type criterion (higher value preferred) due to its importance in preventing

slippage and ensuring stability during movement on steep terrain. In WPM, weighted normalized values indicated that Mat-3 achieved the highest preference score (3.225). Physiological evaluation under varying operational conditions demonstrated that pulse rate increased from 80 to 95 beats per minute and respiration rate from 78 to 94 beats per minute with increases in load (65, 75, and 85 kg), slope (11.5%, 20.8%, and 27.4%), and speed (1.5, 2.0, and 3.0 km/h), indicating higher cardiovascular and respiratory effort with increasing workload.

CIAE established grain processing training centre

Grain Processing Training Centre has been established with a budgetary support of ₹148.24 lakhs under RashtriyaKrishiVikasYojana (RKVY) scheme through Govt. of Madhya Pradesh. The centre houses machines like destonner, air screen cleaner, specific gravity separator, indented cylinder, colour sorter machine, bag sealing, bag filling, packaging, weighing scale, mini rice mill, mini dal mill, millet mill, pulveriser, flour mill (semi-automatic), dryer, oil mill, etc. Further, the centre is equipped with a state-of-the-art lecture room for training purposes. With the increasing emphasis on prevention of postharvest losses and increasing the farmer's income, popularization of the primary processing operations amongst the various stakeholders can be perceived as a step in the right direction. The facility is a unique place where demonstration, hands-on training on operation and maintenance, economics of operation, etc. is made available to the different stakeholders. This facility caters to the aspirations of agripreneurs for setting up similar facilities in partial or in totality at their place on a turn-key basis.

The centre was inaugurated by Shri Shivraj Singh Chauhan ji, Hon'ble Union Minister of Agriculture and Farmers' Welfare on 15 February, 2026. Dr. ML Jat, Hon'ble Secretary (DARE) & Director-General, ICAR and Dr SN Jha, DDG (Agricultural Engineering) were also present on the occasion.

NABL Accreditation of Food Testing Laboratory

The National Accreditation Board has renewed accreditation of Food Testing Laboratory (FTL) of the Institute for chemical testing of food samples in accordance with ISO/IEC 17025:2017. The NABL Laboratory has facilities for chemical testing of Moisture content, Crude Protein, Crude Fat, Ash, Crude Fibre, Titratable Acidity, Peroxide value, pHof aqueous extract, Alcoholic acidity, Acid Insoluble Ash, Total Solid Content and Gluten Content. FTL has been issued Accreditation Certificate No. TC-12647 for Chemical Testing.

Strengthening tribal farming through farm machinery custom hiring centres in Tamil Nadu

Farm machinery custom hiring centres have been established in five tribal belts of Kandiyur, Coimbatore District, Anaikatti, Coimbatore District, Mavanatham, Erode District, Thombureddi, Tiruvannamalai District, and Perappansolai, Namakkal District, with a budget of ₹25 lakh each through the five Tribal Farmers Societies formed under the project. The machinery at custom hiring centreincludes tractor, trailer, cultivator, rotovator, multi-crop thresher, etc. Members of the Tribal Farmers Societies were sensitized by state level training, society level trainings, and exposure visits.

New externally funded project

A project entitled 'Machine learning based maturity assessment device for jackfruit using electrical impedance method' received approval under Corpus Fund with a total budget of ₹49.50 lakh.

Technologies Licensed

Sl. No.	Name of Technology	Name of Contracting Party	Date of Licensing
1.	ICAR- CIAE NRCB High-Capacity continuous feed banana fiber extractor	M/s Jothiees Engineering Industries, Pollachi, Coimbatore, Tamil Nadu 	22.01.2026
2.	Process technology for soya chaap	Tyagi Enterprises, Bijnor, MP	13.02.2026
3.	Portable rotating charring drum	Ishani Engineering, Vadodara, Gujarat	16.03.2026
4.	ICAR SBI CIAE Mobile vacuum based hot water system to treat planting material of sugarcane and other vegetatively propagated crops	M/s CFM , Coimbatore, Tamil Nadu	20.03.2026
5.	Process technology for preparation of millet based biscuit	1. Bio Nutrients (India) Pvt. Limited, Bhopal, MP 2. Vaira Green, Bhopal, MP	25.03.2026
6.	Process technology for fermented tofu whey and ripened tomato based coagulant mixture	Kanja Innovation India Pvt. Limited, Delhi 	25.03.2026
7.	Process technology for preparation of RTC millet instant dalia	Rama Enterprises, Bhopal, MP	25.03.2026

8.	Unmanned multi-purpose track-type vehicle for small farms (UMTV) with attachments such as a. Rotary tiller b. air-assisted sprayer c. Multi-row planter d. weeder	M/s. Lakshmi Precision Technology, Coimbatore, Tamil Nadu 	25.03.2026

Patent granted

Sl. No.	Technology	Patent Number/ Date
1	An apparatus and method for extraction of custard apple pulp flakes	IN583258 B1/13.03.2026

Design registration granted

Sl. No.	Technology	Design Number/ Date
1	Portable patternator for aerial drone spraying application	477113-001/01.01.2026
2	Shear type cashew apple and nut separator	437178-001/17.02.2026
3	Cryogenic hammer mill	434529-001/25.03.2026

International (AARDO) training programme

ICAR-Central Institute of Agricultural Engineering (CIAE), Bhopal organized African-Asian Rural Development Organization (AARDO) sponsored training on "Agricultural Engineering Technologies for Enhancing Productivity and Profitability in Agriculture Sector" during January 05-12, 2026. The broad objective of this training programme was to share innovative agricultural engineering technologies developed by CIAE and other organizations for upskilling and sensitization of the participants in the fields of pre and post-harvest agricultural mechanization.The formal inauguration of the training was held on January 05, 2026 in the presence of Dr C R Mehta, Director ICAR-CIAE, Bhopal and chief guest Prof. Gobardhan Das, Director, IISER, Bhopal. There were 10 participants from 08 different AARDO member countries including Bangladesh, Eswatini, Kenya, Mauritius, Morocco, Oman, Tunisa and Sri Lanka participated in 8 days training course.

During the 8-day programme, the participants were exposed to 17 lectures comprising broad areas including ICAR-CIAE Technologies; Selection, operation and safety of machineries; Conservation agriculture machinery; Plant protection and inter-culture operations; Animal drawn equipments. There were 7 demonstrations covering Land preparation; Plant protection, Inter-culture harvesting and threshing; Precision Agriculture technology including drones and robotics; Protected and soil-less cultivation; Soybean processing and value addition; also a visit to 4 facilities spreading across Implements manufacturing; Farm machinery testing; Tractor manufacturing and Agricultural Field visits were arranged for the trainees.

The training programme concluded on 12th January, 2026 in the presence of Dr. SN Jha, DDG (Engg.). The training programme was conducted by Course Director Dr KN Agrawal, PC-FIM & PS, Co-Course directors VP Choudhary, Head AMD and Dr. Subir K Chakarborty, Principal Scientist.

ICAR sponsored Winter school

ICAR-Sponsored Winter School on "AI-Driven Spectroscopic and Vision-Based Approaches for Automation in Pre- and Post-Production Agri-Food Systems" was organized during February 10 to March 02, 2026. The course focused on electronic instrumentation, machine learning, deep learning, and algorithm development using MATLAB and Python for spectral and image analysis. Total 19 participants from 10 states and 12 universities/institutions attended the Winter School. Participants were also engaged in hands-on training involving sensor integration with micro-controllers and programming using MATLAB and Python.The program was coordinated by Dr. Subir Kumar Chakraborty, Dr. Narendra Singh Chandel, Dr.Dilip Jat, and Dr. Yogesh Rajwade.

ICAR sponsored CAFT training programs

ICAR-sponsored 21-day CAFT program titled "Advanced Approaches in Vegan Food Processing: Genomics, Functional Foods, and Agri-Entrepreneurship" was organized during 7-27 January, 2026. Seven participants from different ICAR institutes, SAUs, and KVKs participated in the training program. The training program comprehensively covered modern technologies and scientific principles in plant-based food systems.

Another training on "Technological Advancements for Secondary Processing of Food Grains" was organized during 3–12 February 2026. A total of 09 participants from NARS institutes and KVKs attended the programme. The training comprised expert lectures, hands-on practical sessions, guest lectures, and exposure visits. The curriculum covered emerging technologies in grain milling and value addition, soybean and millet processing, nutraceutical bioactive compounds and their extraction and characterization, utilization of grain by-products, drying kinetics and modeling, AI applications in food processing, fermentation for nutritional enhancement, IPR management, and quality and safety aspects of secondary processed products.

Hands-on training programs on soybean processing and utilization for food uses

Two batches of hands-on training programs on Soybean processing and utilization for food uses were organized during 13-15, January 2026 and 17-19 March 2026. Ten budding entrepreneurs from Madhya Pradesh and Maharashtra participated in the programs. The training module primarily consisted of practical demonstrations and hands-on sessions, supported by relevant theoretical concepts. The programs covered a wide range of topics, including the preparation of soy-based food products, soymilk and tofu, an introduction to soy processing equipment, project planning, storage and packaging, quality standards, and marketing of soy products.

Skill development on soybean processing for women farmers

A practical training program on soybean processing, skill development, and value addition was conducted during 26 February to 28 February, 2026 in Sehore district. The program covered villages including Boradi, SaliKheda, Guradi, Sonkhedi, Lasliya, Daulatpur, Sangoni, SuaKhedi, Bagnakhedi, and RamgadhSaarap, reaching a total of 279 participants, of which about 95% were women. The initiative aimed to strengthen the technical capabilities of rural women in soybean processing and promote livelihood generation through value-added products. The training received enthusiastic participation and active engagement from the attendees. Participants were made aware of advanced soybean processing.

Trainings organized by Agri Business Incubation Centre

A two-day Entrepreneurship Development Programme on "Agripreneurship: Building Sustainable Agri-Ventures" was organized by the NAIF-Agri Business Incubation Centre of the Institute during 4–5 February 2026. Total 16 participants, including farmers, students, and aspiring entrepreneurs, attended the programme. The training focused on agribusiness opportunities, value addition and enterprise development. An expert lecture by a chartered accountant provided insights on financial support, government schemes and credit facilities. Participants also learned about ABIC services and visited facilities for hands-on experience.

The ABIC also organized training programme on "Protected Cultivation Techniques for Enhancing Yield and Profitability"during 11–13 March, 2026. Total 15 participants, including farmers and aspiring agripreneurs, attended the programme. The training featured hands-on sessions on micro-irrigation, fertigation units, plant protection machinery, protected cultivation, soilless cultivation, nursery raising and solar-powered irrigation. Participants also received guidance on government schemes and subsidies.

Entrepreneurship Development for Custom Hiring of Agricultural Machinery

Entrepreneurship Development for Custom Hiring of Agricultural Machinery as an Enterprise, sponsored by the Directorate of Agricultural Engineering, Government of Madhya Pradesh, was organized in four batches (mention dates), attended by 87 participants. The programme focused on building both technical and managerial skills among farmers, rural youth, and prospective entrepreneurs to enable them to establish and efficiently operate Custom Hiring Centres (CHCs). The training covers the operation, maintenance, and management of commonly used farm machinery available at CHCs, such as tractors, ploughs, cultivators, rotavators, seed-cum-fertilizer drills, threshers, and chaff cutters.

One-month skill development training for tribal youth

The Regional Station, Coimbatore organized skill development Training with financial support from the Department of Tribal Welfare, Government of Tamil Nadu, Chennai on the topic 'Farm Machinery Repair and Maintenance' from 20 December, 2025 to 18 January, 2026, attended by 25 tribal youth. The training focused on developing technical skills in machinery diagnostics, repair, maintenance, engine systems, workshop safety, and operational techniques through a balanced combination of theory and hands-on practice.

Training of farmers on biofuel generation

Training on Utilization of Crop Residues for Biochar and Briquettes Production was organized on 10 March 2026 for 60 SC BPL beneficiaries. The programme was conducted with the objective of improving rural livelihoods of Scheduled Caste (SC) beneficiaries from Tarasevaniya village of Bhopal district. Distribution of farm inputs under SCSP program was also held. The inputs distributed were vegetable transplanters, vegetable seed packets, cook stoves and jute bags with moong and urad seeds.

Other trainings

कृषकों में संरक्षण कृषि तकनीकों के प्रति जागरूकता एवं आधुनिक कृषि यंत्रों के प्रभावी उपयोग को बढ़ावा देने के उद्देश्यसे 09/01/2026, 05/02/2026 एवं 12/02/2026 को"संरक्षण कृषि हेतु उन्नत कृषि औजारों एवंयंत्रों पर कृषकों का व्यवहारिक प्रशिक्षण एवं प्रक्षेत्रप्रदर्शन" विषय पर तीन एक दिवसीय प्रशिक्षण कार्यक्रम आयोजित किए गए।इन कार्यक्रमों में कृषकों को उन्नत कृषि यंत्रों के संचालन, रखरखाव एवं उपयोगिता की व्यवहारिक जानकारी प्रदान की गई। साथ ही, प्रक्षेत्र प्रदर्शन के माध्यम से फसल अवशेष प्रबंधन, न्यूनतम जुताई तथा संसाधन संरक्षणआधारित कृषि पद्धतियों का प्रत्यक्ष प्रदर्शन किया गया, जिससे कृषकों की तकनीकी दक्षता एवं आधुनिक कृषि तकनीकों के प्रति रुचि में वृद्धि हुई।

Technology Demonstration Mela 2026

The technology demonstration mela 2026 was successfully conducted across various centres under the AICRP on FIM scheme with the objective of showcasing advanced farm machinery, improved agricultural technologies, and innovative mechanization practices to farmers, students, entrepreneurs, and other stakeholders. The programmes were organized between January and March 2026 at different universities and research institutes across the country.

A large number of participants attended the melas, indicating significant interest and awareness among the farming community regarding modern agricultural technologies. Among all the centres, BAU, Ranchi recorded the highest participation with around 10,000 participants, followed by MPUAT, Udaipur and OUAT, Bhubaneswar with about 6,000 and 4,000 participants, respectively. The events included live demonstrations of agricultural machinery, interaction with experts, exposure to conservation agriculture technologies, and dissemination of information related to farm mechanization and resource conservation practices. The details of the programmes are given below:

S.No.	Centre Name	Place	Date	Participants
1.	BAU, Ranchi	University Campus	15.01.26	10000
2.	KAU, Kerala	KCAEFT Auditorium, Tavanur	22.01.26	1500
3.	IIT, Kharagpur	Kharagpur	30.01.26	350
4.	MPUAT, Udaipur	Rajasthan College of Agriculture, Udaipur	07.02.26	6000
5.	CCSHAU, Hisar	KVK, Sadalpur	11.02.26	740
6.	TNAU, Coimbatore	AMRC, TNAU, Coimbatore	11.02.26	550
7.	PJTAU, Hyderabad	Agricultural Research Station, Kampasagar	13.02.26	200
8.	UAS, Bangalore	V.C. Farm, Mandya	05.03.26	550
9.	UAS, Raichur	University Auditorium	12.03.26	600
10.	PDKV, Akola	College campus	13.03.26	80
11.	IGKV, Raipur	University Campus	14.03.26	700
12.	OUAT, Bhubaneswar	Nuagaon village of Jagatsinghpur	17.03.26	4000
13.	PAU, Ludhiana	University Campus	19.02.26	-
14.	ICAR-ISRI, Lucknow	Institute Campus	29.03.26	300

BAU, Ranchi

IGKV, Raipur

IIT, Kharagpur

KAU, Kerala

CCSHAU, Hisar

TNAU, Coimbatore

Participation of CIAE in Exhibitions

Sl. No.	Exhibition	Date	Place
1	IP Yatraprogramme	5-6 January, 2026	CSIR-AMPRI Bhopal
2	KrishakKalyan Varsh-2026	11 January, 2026	Bhopal
3	BIS Standard Carnival	29 January, 2026	Sri Krishna College of Engineering and Technology, Coimbatore
4	Mission for Aatmanirbharta in Pulses	7 February, 2026	ICARDA, Amlaha, Sehore
5	National Exhibition & Farmer Interaction on Advanced Agricultural Mechanization Technologies in Central India	22-24 March, 2026	CFMTTI, Budni

IP Yatra Program
CSIR AMPRI

Krishak Kalyan Varsh-2026
Dusheera Maidan, Bhopal

Rashtriya Unnat Krishi Yantrikaran
CFMTTI Budhni

Mission for Aatmanirbharta in Pulses
ICARDA, Amlaha, Sehore

Test reports of commercial machinery released and revenue generated

	No. of Test Reports Released	Revenue Generated, Rs.
Farm Machinery	34	60,31,527/-
Post-harvest machinery	03	14,30,460/-

Media Activities

Name	Topic	Date	Media
Sh. M. P. Singh (ACTO)	Fertilizer Management and Contemporary Agricultural Practices in Rabi crops	04.01.2026	Hello Gram Sabha-Live phone in program, Akashvani Kendra. Bhopal
Sh. M. P. Singh (ACTO)	Cultivation and management of Taiwan Guava	15.01.2026	Radio Karamveer
Sh. M. P. Singh (ACTO)	Disease & Pest Management in Rabi Crops	19.01.2026	KrishiDarshan, Madhya Pradesh Doordarshan
Dr. R. K. Singh, PS & I/c	प्राकृतिक खेती के सिद्धांतों पर वैज्ञानिक एवं व्यवहारिक जानकारी	02.02.2026	दूरदर्शन के लोकप्रिय कार्यक्रम कृषि दर्शन में लाइव सहभागिता
Dr. Shubham Singh (SMS)	Integrated Nutrient Management	11.02.2026	KrishiDarshan, Madhya Pradesh Doordarshan
Dr. TejeshwariSatpute (SMS)	स्वच्छ दुग्ध उत्पादन एवं थनैला रोग प्रबंधन	13.03.2026	KrishiDarshan, Madhya Pradesh Doordarshan

KVK NEWS

On Farm Testing (OFT)

Sl. No.	Crop/ Technology	Villages	No. of farmers	Area (ha)	Yield (kg/ ha)
1.	Assessment of Probiotic supplementation in neonatal calves	Ratatal, Mugaliyahat and Gondermau village	5	20 calves	-
2.	Assessment of Wheat variety HI-1650 (PusaOjaswi)	Ratatal	5	2.0 ha	-
3.	Assessment of intake of a bio-fortified variety of Wheat: HI 1650 (PusaOjaswi) on nutritional status of the farm family	Ratatal, KachhiBarkheda, Chanderi	9	3.6 ha	-
4.	Assessment of natural farming methods in wheat	Chandpur &Lambakheda	3	2.0 ha	-
5.	Assessment of bio-fertilizer application in wheat crop	Gondermau	3	2.0 ha	-
6.	Assessment of residue management machinery for wheat sowing	Ratatal and Mugaliyahat	4	2.0 ha	-
7.	Assessment of different sowing techniques in potato cultivation	Ratatal, Borkhedi, Muriyakheda	3	1.0 ha	-

Trainings organized

Sl. No.	Title of the training	Date	No of participants
1.	Advanced machinery for field preparation	23.03.2026	25
2.	Principles and practices of natural farming	02.02.2026	31

Frontline Demonstration

Sl. No.	Technology demonstrated	Village(s)	No. of farmers benefitted	Area (ha)
1.	PoshanVatika for household food and nutritional security	KacchiBarkheda, Ratatal, Mungaliya Haat	10	4.0 ha
2.	Mustard DRMR-1165-40	MungaliyaHaat, Ratatal, Barrichirr Kheda	10	1.4 ha
3.	Nano urea in wheat	MungaliyaHaat, Ratatal, Chanderi	4	2.0 ha
4.	Vitamin E and selenium supplementation in dairy animals for mastitis management	Ratatal, Mugaliyahat and Gondermau village	5	10 animals

Events organized by KVK

- Sarpanch Sammelan was organized to create awareness about the benefits of the Viksit Bharat- Guarantee for Rozgar and Ajeevika Mission on 3January, 2026 in which sarpanch from 15 villages participated in the programme.
- Live viewing of the National Launch of BharatVistaar – Digital Public Infrastructure (DPI) for AI in Agriculture was organized on 17 February 2026 which was held at Jaipur during the India AI Impact Summit 2026. A total of 71 farmers (48 male and 23 female) participated in the programme.
- Prem-Seva Sankalp Diwas was conducted on 5 March, 2026 by organizing a plantation programme at the KVK nursery.
- Live webcast of the address of Hon'ble Prime Minister Shri Narendra Modi during the Post-Budget Webinar on "Agriculture and Rural Transformation" was organized on 6th March. A total of 46 participants from the villages Mugaliya Haat, Ratatal Khajuri, Khajuri Kalan, Chandpur, and Berasia attended the program.
- International Women's Day was celebrated on 8March 2026 by inviting women farmers to the KVK farm, where KVK officials interacted with them and appreciated their important role in agriculture and rural livelihoods.
- Live webcast of the release of the 22ndinstallment under Pradhan Mantri Kisan Samman Nidhi was organized on 13 March 2026. A total of 80 farmers participated in the event, including 54 male and 26 female farmers.
- An oath-taking ceremony along with the live telecast of the "Bhumi Suposhan Abhiyan" was organized on 19 March 2026. The program emphasized the importance of soil health management and sustainable agricultural practices.
- A total of 11 exposure visits and field interactions were organized at KVK Bhopal and nearby locations, involving participants from schools, ATMA, Agriculture and Horticulture Departments, and NGOs. These visits covered key areas such as agricultural mechanization, scientific crop production, nutrient and water management, natural farming, and improved oilseed cultivation practices. Overall, these programmes collectively benefited 368 farmers and participants.

Live webcast of the release of the 22nd instalment under PM Kisan Samman Nidhi

Exposure visit from Vidisha district

Five-day training program of KrishiSakhis under the National Mission on Natural Farming

KVK Bhopal participated in the 51st Foundation Day program of ICAR-CIAE

Programme under the V.B.G. RAM G awareness

Live webcast of the address of H'ble PM during the Webinar on Agriculture and Rural Transformation

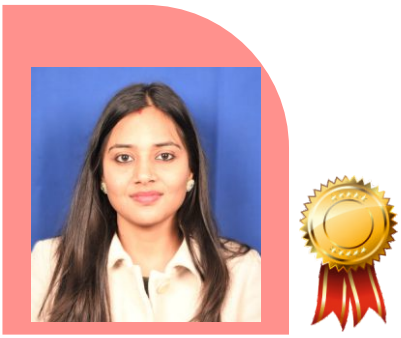
Awareness programme under Campaign on Balanced Use of Fertilization

OFT on Probiotic supplementation

Human Resource Development

Name and Designation	Course Title	Duration	Venue/ Place
Dr. Aman Mahore	Professional Attachment Training	1 December, 2025 to 27 February, 2026	PAU, Ludhiana
Dr. Harsha Wakudkar	Project Planning, Implementation and Management for NTFP based Enterprises	2-4 February, 2026	IIFM, Bhopal
Dr. Tejeshwari Satpute SMS (KVK)	CAFT training on Technological advancements for secondary processing of food grains	3-12 March 2026	ICAR-CIAE, Bhopal
Dr. Shubham Singh (SMS, Soil Science)	KisanSarathi Training on Content Creation and Dissemination of Soybean Advisories	16-17 March 2026	Krishi Vigyan Kendra, Majhgawan, Satna

Ph.D. Awarded



Er. Ajita Gupta, Scientist was awarded Ph.D. by ICAR-IARI, New Delhi for her thesis title '*Design Optimization and Automation of Furrow Irrigation System in Vertisol*', under supervision of Dr KVR Rao, Dean, Agricultural Engineering & Technology, PJTAU, Hyderabad.

Ms. Tejeshwari Satpute, SMS was awarded Ph.D. by ICAR-NDRI, Karnal for her thesis title '*Effect of microclimatic modifications and supplementary feeding on semen quality of Murrah buffalo bulls during different seasons*', under supervision of Dr. Pawan Singh, Principal Scientist, ICAR-NDRI, Karnal.

Awards and Recognitions

Best Employee of the Institute Awards

In order to recognize outstanding contributions of the deserving staff, the Institute initiated the Best Employee of the Institute award. Selection of the awardees was based only on the information provided as part of the nomination process. The first set of awards were awarded on 15 February, 2026, on the occasion of 51st Foundation Day of the Institute.

Scientific Cadre
Dr Ravindra Naik
Principal Scientist

Technical Cadre
Dr Deepika Shende Channe
Assistant Chief Technical Officer

Administrative Cadre
Shri Kumar Gaurav
AFAO

Best Technology Commercialization Award

Dr. Satya Prakash Kumar, Dr. AK Roul and Dr. BM Nandede received the Best Technology Commercialization Award – 2025 for Tractor operated hydraulic pruner technology on the 51st Foundation Day of the Institute.

Best Research Paper Award

Dr. Satya Prakash Kumar, Dr. AK Roul and Dr. BM Nandede received the Best Technology Commercialization Award – 2025 for Tractor operated hydraulic pruner technology on the 51st Foundation Day of the Institute.

Recognitions

Sl. No.	Name & Designation	Recognition	Organization
1.	Gopal Carpenter, Scientist	Member, Editorial Board, Agricultural Engineering Today (ISSN: 0970-2962)	Indian Society of Agricultural Engineers
2.	Deepak Thorat	Group member of one of the top 10 projects in the "Two weeks CEC certification course on Deep Learning Concept to Application with Hands-on Practice"	Department of Information Technology, NIT Raipur, Chhattisgarh

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Events organized by CIAE

Annual workshop of AICRPs/CRPs

Farm Implements and Machinery

The 40th Annual Workshop of AICRP on FIM was held at Junagadh Agriculture University, Junagad (Gujarat) during 19-21 January, 2026. The inaugural session of the workshop was chaired by Dr. SN Jha, Dy. Director General (Agril. Engg.) and co-chaired by Dr. KP Singh, Asst. Director General (Farm Engg.) and Dr. CR Mehta, Director (ICAR-CIAE, Bhopal). Dr. V. P. Chovatia, Hon'ble Vice Chancellor, JAU, Junagadh was Chief Guest of the inaugural session. Dr. VM Mayande, former Vice Chancellor (Dr. PDKV, Akola) and Dr. Aum Sharma, Former Principal Investigator (AICRP on FIM, PJTAU, Hyderabad) were the distinguished experts to review the progress of the centers. Senior officials and Research Engineers/PIs and associated scientists from 25 centers of AICRP on FIM, PIs and associated scientist of remaining 8 centres of project "Assessment of Farm mechanization Status and Prospects of Custom Hiring Centres in India", Project Coordinators of the associated scheme(s) of Agricultural Engineering Division, scientists from CIAE ICAR-CIAE, Bhopal and Officials of JAU, Junagadh (Host organization) participated in this workshop.

Ergonomics and Safety in Agriculture and Allied Sector

The 17th Annual Workshop of AICRP on on Ergonomics and Safety in Agriculture and Allied Sector (ESAAS) was organized at OUAT, Bhubaneswar, Odisha during 19-20 February, 2026. The Inaugural Session on February 19, 2026, was chaired by Dr. S. N. Jha, Hon'ble Deputy Director General (Agril. Engineering), ICAR, and Co-Chaired by Dr. K. P. Singh, Assistant Director General (Farm Engineering), and Dr. C. R. Mehta, Director, ICAR-CIAE, Bhopal. Dr. P. K. Nag, Former Director, National Institute of Occupational Health, Ahmedabad and Dr. S. K. Mohanty, Former Research Engineer of OUAT, Bhubaneswar were the distinguished expert to review the progress of the cooperating centers. Senior officials, Research Engineers/PIs and associated scientists from cooperating centers of AICRP on ESAAS and officials of OUAT, Bhubaneswar, participated in this workshop. Dr. Niranjan Panda, Dean of Research, OUAT, Bhubaneswar, delivered the welcome address, highlighted the university's contributions to research, innovation, and sustainable agricultural practices. Dr. MrinaliniDarswal, Commissioner-cum-Secretary, Department of Women and Child Development, Government of Odisha was the Chief Guest, commended AICRP on ESAAS for innovations like women friendly ergonomic tools, emphasizing their role in reducing occupational hazards and drudgery. Prof. Pravat Kumar Roul, Hon'ble Vice Chancellor, OUAT, Bhubaneswaremphasized on the University dedication to advancing mechanized and safe agricultural practices.

Energy in Agriculture and Agro-based Industries

The 29th workshop of AICRP on Energy in Agriculture & Agro-based Industries (EAAI) was organized during 29-31 January, 2026 at Sardar Patel Renewable Energy Research Institute, Anand (Gujarat). The inaugural session of the workshop was held on January 29, 2026, under the Chairman of Dr. S.N. Jha, Deputy Director General (Agricultural Engineering), ICAR, New Delhi and Chief Guest was Shri JitubhaiVaghani, Hon'ble Minister of Agriculture, Govt. of Gujarat. The session was Co-chaired by Dr. K. P. Singh, ADG (FE), ICAR, New Delhi, and Guest of Honor are Shri Yogeshbhai Patel, MLA, Anand and Er. Bhikhubhai B Patel, Chairman, SPRERI, Anand, Dr. K. B. Kathiria, Vice-Chancellor, Anand Agricultural University, Anand, attended as the Special Guest.

Mechanization of Animal Husbandry

The 25thAnnual Workshop of the AICRP on Mechanization of Animal Husbandry (MAH) was held at the GovindBallabh Pant University of Agriculture and Technology (GBPUAT), Pantnagar during 7-8 March, 2026. Hon'ble Vice Chancellor of GBPUAT, Dr. M. S. Chauhan was the Chief Guest of the inaugural programme of the workshop and he underscored the critical need for advanced R&D to bridge mechanization gaps in the animal husbandry sector. The session was chaired by Dr. S. N. Jha, DDG (Agril. Engg.), ICAR, and co-chaired by Dr. K. P. Singh, ADG (FE), and Dr. C. R. Mehta, Director, ICAR-CIAE Bhopal. Dr. S. K. Verma, Director Research (GBPUAT), welcomed the delegates from nine centres of the scheme. Dr. S. P. Singh, Project Coordinator (MAH) presented the significant achievements of the cooperating centres during 2025-26. It was followed by technical sessions in which progress of on-going research projects and new projects was reviewed for thecentres. Dr. DivakarHemadri, ADG (Animal Health), ICAR, and Dr. K. K. Singh, former ADG (FE) were the experts and provided critical insights on new research proposals aimed at modernising livestock farming.

Consortia Research Platform (CRP) on Precision Farming (PF)

The eleventh workshop of the consortia research platform (CRP) on precision farming (PF) and micro-irrigation systems (MIS) was organized during 27–28 February, 2026 at ICAR-IIHR, Bengaluru. The inaugural session was chaired by Dr. S. N. Jha, DDG (Agricultural Engineering), ICAR, New Delhi, and co-chaired by Dr. K. P. Singh, ADG (Farm Engineering), ICAR, New Delhi, and Dr. C. R. Mehta, Director, ICAR-CIAE, Bhopal. The experts, scientists, and representatives from cooperating centres across the country participated in the workshop.During the programme, Dr. V. P. Chaudhary, LCPC, CRP on PF, and Dr. R. K. Singh, Dy. LCPC, CRP on MIS, presented the progress and achievements of the projects during 2025–26. The “Research Highlights 2025–26” of CRP on PF and MIS, was also formally released by the dignitaries during the inaugural session.The dignitaries emphasized strengthening collaborative research under consortia mode, avoiding duplication of research work, improving quality research publications, and enhancing linkages with premier institutions and industries. Scientists were advised to organize project activities objective-wise and ensure proper acknowledgement of CRP in all publications. The workshop concluded with technical presentations and discussions on precision farming and micro irrigation technologies.

ICAR appointed evaluation team visited CIAE

Arpan SevaSansthan, Jaipur, Rajasthan was engaged by the Indian Council of Agricultural Research to conduct the Final Outcome Evaluation of the Central Sector Scheme for Agricultural Engineering: 'Agriculture Production and Post-Production Mechanisation Augmented with Innovative Technologies for Sustainable Agriculture Development'. The team visited the Institute on 22 February, 2026 and conducted the evaluation for the period from April, 2021 to March, 2026.

Outreach meeting on deep Agritech innovations

Project Outreach and Industry Interaction Meeting of AgriHub: Innovation Hub for Agriculture (AI/ML and Deep Learning CoE) of Indian Institute of Technology, Indore was organized in collaboration with ICAR-NSRI Indore, ICAR-CIAE Bhopal and CDAC Pune on 11 March, 2026 at ICAR-CIAE. The AgriHub is supported by the Ministry of Electronics and Information Technology (MeitY), and the Department of Science and Technology, Government of Madhya Pradesh. Shri M. Selvendran, Principal Secretary, Science and Technology, Government of Madhya Pradesh was chief guest in this programme. The programme was attended by Prof.Aruna Tiwari, Principal Investigator of AgriHub, Dr.KunwarHarendra Singh, Director of ICAR-NSRI Indore, and Dr. C.R. Mehta, Director of ICAR-CIAE Bhopal. A brief overview of AgriHub activities and achievements was presented by Prof.Pavan Kumar Kankar of IIT Indore, along with Dr.MilindRatnaparkhe of ICAR-NSRI Indore, Dr. Shashi Rawat of ICAR-CIAE Bhopal and Mr. Amit Saxena CDAC Pune. During the technical sessions, researchers presented progress of several Deep AgriTech projects, including AI-based plant phenotyping, genomic visualization tools for soybean crops, IoT- and drone-based decision support systems for precision farming, groundwater data analytics, and deep learning–based precision spraying technologies. Experts from industry and academia shared insights on genomics, phenomics, AI-based disease diagnosis, precision agriculture, and drone applications.

Second advisory committee meeting of the NASF project

The second Advisory Committee Meeting of the NASF-funded project titled “Development and Evaluation of Robotic Harvester for Grape Bunches” was held on 23 March, 2026, at Regional Station, Coimbatore. The meeting was chaired by Dr. Indra Mani, Vice-Chancellor, VNMKV, Parbhani, and was attended by advisory committee members viz Dr. A.P. Srivastava, Former National Coordinator, NAIP, ICAR, New Delhi,Dr. Ashok Kumar, Principal Scientist, ICAR-NASF, New Delhi,Dr. A.K. Sharma, Principal Scientist and CC-CoPI, ICAR-NRC Grapes and project collaborators, Dr. C.R. Mehta, Director, ICAR-CIAE, Bhopal, Dr. RavindraNaik, Principal Scientist and Head (i/c), ICAR-CIAE RS.

Republic Day Celebration

The Republic Day was celebratedon 26 January, 2026 at ICAR-Central Institute of Agricultural Engineering with great patriotism and enthusiasm. The national flag was unfurled in the presence of scientists, staff members, students, and their families by Director of the institute Dr CR Mehta, followed by the singing of the national anthem. The event highlighted the spirit of unity, dedication, and commitment towards nation-building through agricultural innovation and research. Cultural performances and motivational addresses added pride and inspiration to the celebration, reaffirming the institute's contribution to the progress of Indian agriculture and rural development.

International Women's Day-2026 Celebration

The institute celebrated International Women's Day-2026 on 10th March, 2026 under the chairmanship of Dr. C. R. Mehta, Director, ICAR-CIAE, Bhopal. The programme's theme was “Give to Gain” for women's empowerment. The occasion was graced by Dr. Monika Jain, Chairperson, Search and Research Development Society, Bhopal as the Chief Guest.BK Hema, Member, Brahma KumarisMeditation Centre, Bhopal has graced the occasion as Guest of Honour and delivered the speech on “Work-life harmony and stress management”. Dr. C. R. Mehta, in his presidential address, mentioned that 2026 has been declared by the United Nations as the International Year of the Woman Farmer, recognizing the vital contributions of women farmers in agriculture. The event witnessed the participation of 125 participants, including scientists, students, administrative, supporting staff, and female family members of staff and farm women.

Educational tour cum field exposure to milk processing plant

Women cell of the Institute organized educational trip cum field exposure to Sunder Foods & Dairy Plant (SUFODA), Vidisha on 6th Feb, 2026 for women staff. The main objective was to enhance the practical knowledge about processing of foods. This initiative aimed to broaden the horizons of the women staff and students by providing them with exposure to industrial practices and entrepreneurship development. The programme was coordinated by Dr. Harsha Wakudkar, Dr. Ajita Gupta, Dr. Deepika shende, Dr. TejeswariSatpute and Ms. Shreya Nayak.

Our New Colleagues

Shri Vikas Yadav
joined as Assistant on 12 February, 2026

Resignation of Staff

Dr. Manojit Chowdhuri resigned from the post of SMS (T-6) on 16 January, 2026 to join as Assistant Professor, Department of Agricultural Engineering, ViswaBharati, West Bengal.

Shri Brijprakash resigned from the post of Technician (T-1) on 16 January, 2026 to join as Junior Engineer, Central Railways, Mumbai.

Shri Raman Kumar Maurya resigned from the post of Technician (T-1) on 2 February, 2026 to join as Junior Engineer (Quality Surveying & Contracts), Military Engineer Services (MES), Office of Garrison Engineer (Air Force) E/M Chakeri.

Superannuation of Staff

Sl. No.	Name	Designation	Date of Superannuation
1.	Sh. A.P. Shilarkar	T-9	31.01.2026
2.	Sh. Goutam	T-7-8	31.01.2026
3.	Sh. Kalyan Singh	UDC	31.01.2026
4.	Sh. A.K. Kumre	SSS	28.02.2026
5.	Smt. Jessy Joy	Private Secretary	31.03.2026

भाकृअनुप
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