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e-NEWSLETTER
INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

….. Connecting Engineers in Agriculture

March - April2025

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INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

Message From The President

My Dear Readers! *After successful completion of election process for the term 2025-2028, new elected members took oath of office on 31st March 2025 and the first Executive committee meeting was held on the 10th April 205. As per byelaws and rules of ISAE required number of members for executive committee (EC) were nominated. I hope the new EC will work with same or with better way to fulfil the expectations of the Agricultural fraternity in general and the ISAE members in particular.*

Friends! *A few important decisions such as approval MoUs with ProQuest and M/S Cyberlative, our website service provider, were approved, besides nominations of few members in EC and ISAE council. We are trying to have online award application/nomination module in place from this year. ProQuest is a database for indexing and marketing of journal contents. It is a part of Clarivate and thus may be beneficial for JAEI getting impact factor of Clarivate/web of Science in near future. You will be happy to note that the citations of papers published in JAEI from 2022 to 2024 is in increasing order and in 2024 it was more than 500, a record high in a year on goggle scholar. You will also be happy to note that the JAEI (January-March 2025 issue was published before schedule probably first time in its history. Through this e-newsletter I request all the members to cite more papers of JAEI in SCOPUS indexed journal, a requirement for SCOPUS indexing in future.*

Dear Members!! *The process of forming directorate/Department of Agricultural Engineering at least in 12 states is in progress. We are pursuing it from here, but request chapters and members to pursue cases in respective state at local level. I also attended meeting of Mumbai Chapter in this month and requested them to increase the activities of the chapter and pursue the case of formation of the Directorate. I personally as DDG Agricultural Engineering, ICAR wrote a letter to Maharashtra Government to include members from Agricultural Engineering fraternity in the committee. I thank Dr. Anap the chairman of the Mumbai chapter for donating Rs. 20000/- (Twenty thousand) only to Mumbai chapter. Similar gesture may be shown by other members of all chapters which will help in strengthening the respective chapters of the society. I am also happy to inform you that IIT Mandi has shown interest to open UG programme of Agricultural Engineering and we have provided helps in making the syllabus for having Smart Agriculture through education of Agricultural Engineering. ISAE has also been approached by the Krishi Jagaran for becoming knowledge partner in organizing a workshop/conference on mechanization through jugar technologies.*

Dear ISAEians! *The new Executive committee is putting all efforts in all fronts, including updating the records of all members for which most of you might be receiving mail from ISAE office. Request all of you kindly to help in updating mobile numbers and emails of each member who are not getting mail for the purpose. It will help ISAE to communicate with you and serve you better.*

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S N Jha
President, ISAE

From the Editor-in-Chief's Desk

It is pleasing to inform that the newly EC elected members of ISAE has taken the Oath and started working for betterment of the society and taking it to further new phase of its development and the 1st EC meeting has also been conducted. I hope the new EC will work with same or with further better way to fulfil the expectations of the Agricultural fraternity in general and the ISAE members in particular.

This newsletter is featured with glimpses of efforts made through activities and advancement in the field of Agriculture / Agricultural engineering conducted during this period of March. April 2025, 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

Chandra Shekhar
(Editor-in-Chief)
Astt. General Manager (Engg./IT)
National Seeds Corporation Ltd.
Beej Bhawan, Pusa Complex, New Delhi -110012
Email ID- iitkanpur.chandu@gmail.com

Contents

ISAE Happenings

7th ISAE Council meeting held on 07.03.2025 at ISAE HQ

The ISAE Council meeting was called on 07.03.2025 physically on request of many council members in its last Executive committee meeting at the ISAE HQ, New Delhi at 11.00 AM. The presence of members was less, so the meeting was adjourned for half an hour in a hope that some more members may join. The meeting was again called at 11.30 AM in which 11 members were present:

The secretary General welcomed all the members on the ISAE Council meeting and briefed about the activities after the last council meeting held at VNMKV, Parbhani. He also expressed his sincere thanks to all the council and executive committee members for their direct and indirect contributions to make the ISAE vibrant and more productive. Since it was the last meeting of the present ISAE council, the President, ISAE expressed his satisfaction on the progress made by the present ISAE Council and EC expects that new ISAE Council will continue to work on some of the initiatives taken by the present council with more energy. He appreciated the contributions made by all the members of the council. After brief address of the President ISAE, the following points were discussed and decided unanimously.

1. The council appreciated the central election committee for conducting ISAE general election in time bound manner smoothly and decided that an appreciation letter from ISAE should be issued to each member of the CEC. The council also decided to have oath taking ceremony for the elected members on the 31st March 2025 and oath will be given by the Chairman, Central Election Committee.

2-It was informed that details statement of fund received, expenditure incurred, number of registered delegates, refunds of saving from last ISAE annual convention hosted by VNMKV Parbhani is yet to be received. It was suggested that a letter may be issued in light of MoU signed by the organizer with a copy to University authority from ISAE HQ for early settlement of the account and transfer of Rs.5.0 lakhs to ISAE HQ as per the MoA.

At the last all the members expressed their gratitude to ISAE and appreciated the efforts made by all office bearers for the society. Conveyed their best wishes to the newly elected ISAE council members.

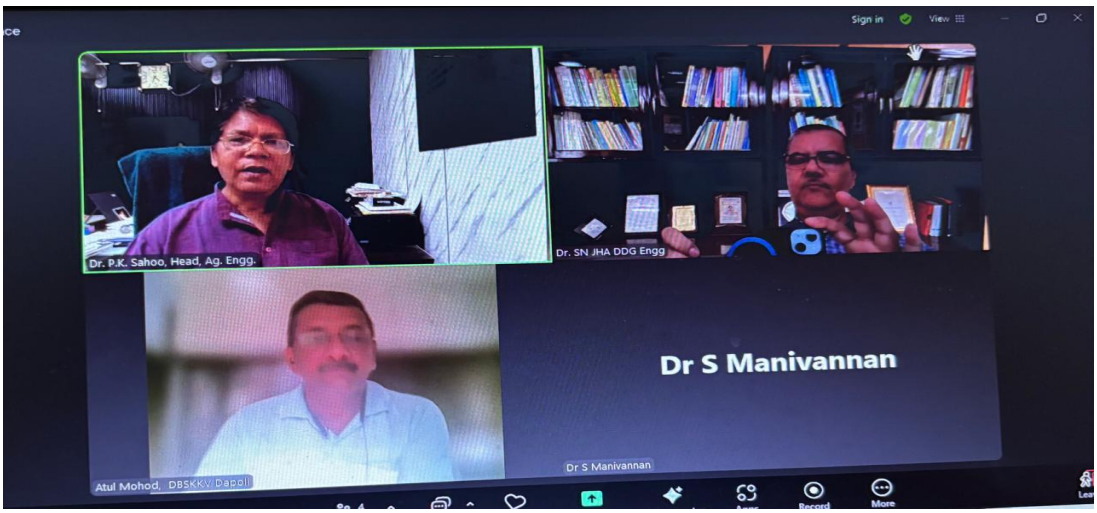
ISAE Happenings

ISAE council members Oath taking ceremony

The Oath taking ceremony of Newly elected ISAE counsel members was held on 31st March on online mode. Present ISAE council members and executive committee members were also invited to join and congratulate them. The Oath was given by Dr. Chandra as Chairman central election committee.

The 1st ISAE Executive Committee meeting was held on 10.04.2025

The 1st newly elected Executive committee members meeting was held on 10.04.2025 in online mode.



ISAE Signs MoU with ProQuest

The Indian Society of Agricultural Engineers (ISAE) is pleased to announce the signing of a Memorandum of Understanding (MoU) with ProQuest, a renowned global information-content and technology company. This collaboration aims to enhance the visibility, accessibility, and global reach of ISAE's research publications and scientific outputs.

Through this MoU, ISAE's publications will be indexed and made available to a wider academic audience via ProQuest's extensive research databases, supporting the advancement of agricultural engineering knowledge and innovation worldwide.

ISAE Happenings

Explore the Future of Agricultural Engineering – Education & Applications

For better understanding of students who are interested in about the future of Agricultural Engineering, ISAE has prepared a short video.
The readers may check out the video "Agricultural Engineering: Education & Applications" to discover the exciting opportunities, real-world applications, and career paths in this evolving field. From smart farming technologies to sustainable agriculture solutions, this video provides valuable insights into how Agricultural Engineers are shaping the future of food and the environment.

Link for video – https://isae.in/2025/04/05/explore-the-future-of-agricultural-engineering-education-applications/

Whether you're planning your career or just exploring your options, this video is a must-watch for all aspiring engineers of tomorrow.

Punjab Chapter of ISAE organised session on "Career opportunities in agriculture and allied sector" at PM Shree Navodaya Vidyalaya Ludhiana

On 01 March 2025, the Punjab Chapter of ISAE organized an interactive session on career counselling for students of PM Shree Navodaya Vidyalaya Ludhiana PO Dhanansu, Pincode-141112. While speaking on the topic entitled "Career opportunities in agriculture and allied sector" Dr. sandeep Mann Vice Chairman Punjab Chapter ISAE & Head AS&EC ICAR-CIPHET Ludhiana explained to the students about admission process of various agricultural courses offered by different agricultural universities. During the session, he also highlighted the significance of the Agricultural Engineering profession, scope of agricultural engineers in advancing the present farming systems. The principal of School Mrs. Nishi Goyal and other senior staff also graced the occasion with their presence. The session was concluded with addressing the doubts of students.

ISAE Happenings

National Seminar on "Advanced Technologies to Enhance Productivity and Sustainability in Agriculture"

A Two Days' National Seminar was organized by the Department of Agricultural Engineering, Institute of Agricultural Science (IAS), BHU in collaboration with Varanasi Chapter of ISAE during 10th and 11th February 2025. It was inaugurated on 10th February 2025 by Prof. Panjab Singh as Chief Guest. He has emphasized the need of increased agricultural production with the global demand. Dr. Singh in his remarks said that the food should be accessible to everyone rather than excisable. He has emphasized the need to reduce around 30% of loss in food production chain. He insisted that the production per unit input must be maximized. Prof. Amit Patra, Director IIT-BHU was a guest of honour and he has suggested the Agriculturist and Engineers must work together to build agriculture business models. Prof. M.L. Gaur, Vice-Chancellore, Dr.CV Raman University, has emphasized the need to strengthen the farmers with the application of machine learning, IoT and drone technology. Prof. U.P. Singh, Director, I.Ag.Scs. urged the scientific community to conduct the research on agricultural sustainability. Prof. V.K. Chandola Convenor, briefed the gathering about of the national seminar. Prof. B.N. Rai Chairman IE(I) Varanasi Centre, explained about the activities of Institution of Engineers Varanasi Centre, Prof. R.M. Singh, Chairman ISAE, described the activities of Indian Society of Agricultural Engineers Varanasi Chapter. The inaugural function was concluded with vote of thank by Dr. Shrinivasa D.J. as Organizing Secretary. The seminar covered a wide range of topics critical to the future of agriculture. The event brought together leading experts, researchers, and practitioners from across the nation to discuss cutting-edge innovations and strategies for enhancing agricultural productivity and sustainability. The valedictory ceremony was graced by the esteemed presence of Prof. S. N. Upadhyay, former Director of IIT BHU, and Prof. Ramesh Chand, Former Director of the Institute of Agricultural Sciences, BHU. The ceremony was convened by Dr. V.K. Tripathi as Joint Organizing Secretary. All the members of ISAE Varanasi chapter attended the seminar.

ICAR-IARI Celebrates its 120th Foundation Day

ICAR-Indian Agricultural Research Institute, New Delhi, celebrated its 120th Foundation Day with a grand fervor and resolution, highlighting its remarkable contributions to Indian agriculture since its establishment in 1905. The event was graced by distinguished dignitaries, eminent scientists, farmers and students, reflecting on the institute's legacy of research, innovation, and sustainable agricultural advancements.

The Chief Guest, Prof. Ramesh Chand, Member, NITI Aayog, Government of India delivered foundation day lecture. In his address, Prof. Chand offered valuable insights into the evolving landscape of Indian agriculture and outlined key policy imperatives for the future. He commended IARI's historical contributions to agriculture, particularly its pivotal role in the Green Revolution. Emphasizing the need to tailor policies to state-specific agricultural conditions, Prof. Chand pointed out that market distortions hinder growth and diversification. He advocated for aligning production with demand, enhancing efficiency through innovation, and tapping into alternative demand sources such as processing, exports, and the bioeconomy. Prof. Chand also proposed that ICAR-IARI could lead the way in the future by embracing the concept of a "Bio-Revolution," integrating biotechnology with the Green Revolution.

The Guest of Honor, Dr. D.K. Yadava, Deputy Director General (Crop Science), lauded the institute's pioneering contributions in agricultural research and its impact on the farming community and national development. He said that ICAR-IARI plays a crucial role in the national agriculture research system, and its contributions to crop science have had significant impacts. He also outlined the high priority areas for ICAR-IARI research, education, extension besides the recent budget highlights of agriculture sector.

Dr. Ch. Srinivasa Rao, Director & Vice-Chancellor, ICAR-IARI, emphasized the role of public-private partnerships, technology development, and environmental sustainability. In his address, Dr. Srinivasa Rao highlighted the historic significance of the 120th Foundation Day, acknowledging the contributions of ICAR-IARI in shaping the future of Indian agriculture. He also emphasized the institute's pivotal role in advancing food security, nutrition, and poverty alleviation, and reaffirmed the institute's commitment to innovation and excellence.

A detailed presentation followed, showcasing ICAR-IARI's achievements over the past 120 years, including significant advancements in crop science, sustainable agriculture, and food security initiatives.

The event also featured the release of several publications, acknowledging the contributions of researchers and scholars at ICAR-IARI. The event concluded with a vote of thanks delivered by Dr. R.N. Padaria, Joint Director (Extension), ICAR-IARI.

(Source: ICAR-Indian Agricultural Research Institute, New Delhi)

World Water Day Celibration - 2025

World Water Day, held on 22 March every year since 1993, is an annual United Nations Observance focusing on the importance of freshwater. World Water Day celebrates water and raises awareness of the 2.2 billion people living without access to safe water. It is about taking action to tackle the global water crisis. A core focus of World Water Day is to support the achievement of Sustainable Development Goal 6: water and sanitation for all by 2030.

Every year, UN-Water — the UN's coordination mechanism on water and sanitation — sets the theme for World Water Day. **In 2025, the theme is Glacier Preservation**

WTC, ICAR-IARI Celebrates World Water Day

Water Technology Centre (WTC), ICAR-Indian Agricultural Research Institute (IARI), New Delhi organized World Water Day Programme on Central Theme i.e. 'Glacier Preservation' on 22.03.2025 (4PM to 5.30 PM). The main objectives of the Programme are (a) Analyzing the present status of glaciers in India and other nations in the backdrop of climate change and (b) Devising integrated action plan for sustainable and climate resilient water management for ensuring water and food security. The expected outcome of this programme in the form of technological and policy options for glacier preservation and sustainable and climate resilient water management in agricultural sector will aid in achieving the targets under Sustainable Development Goal (SDG) 6 of the United Nations (Ensure availability and sustainable management of water and sanitation for all) and SDG 13 (Climate Action). This occasion was graced by Dr. A.K. Singh, Formerly DDG (NRM), ICAR and Vice Chancellor, RVSKVV, Gwalior as Chief Guest. Dr. T.K. Behera, Director, ICAR-IIHR, Bengaluru graced as Guest of Honour. Dr. C. Viswanathan, Joint Director (Research), IARI Dr. R.N. Padaria, Joint Director (Extension), IARI Dr. P.S. Brahmanand, Project Director, WTC, IARI were also present during this event.

Chief Guest Dr. A.K. Singh explained about the impact of higher rate of glacier melting on sea water level rise and urgent need to practice climate resilient water management practices. He also stressed on the advanced technologies for efficient and sustainable utilization of groundwater resources in coastal and inland areas, enhancing area under micro irrigation and water quality management.

Guest of Honour Dr. Behera mentioned that the water use efficient practices like drip fertigation and mulching need to be practiced in water scarce areas of India and priority should be given to crop diversification with low water requiring pulse, oil seed and horticultural crops.

Dr. Brahmanand gave brief presentation on the current status of glaciers in different countries with special focus on melting rate of Himalayan Glaciers in the backdrop of climate change and measures for glacier preservation. He informed the house that the number of glaciers in the Indian Himalayas is about 9,575 as per the report of The Geological Survey of India and some glaciers, like Chuma and Onglaktang, have retreated at rates of 3.9 and 4.3 meters per year, respectively, from 1988 to 2018.

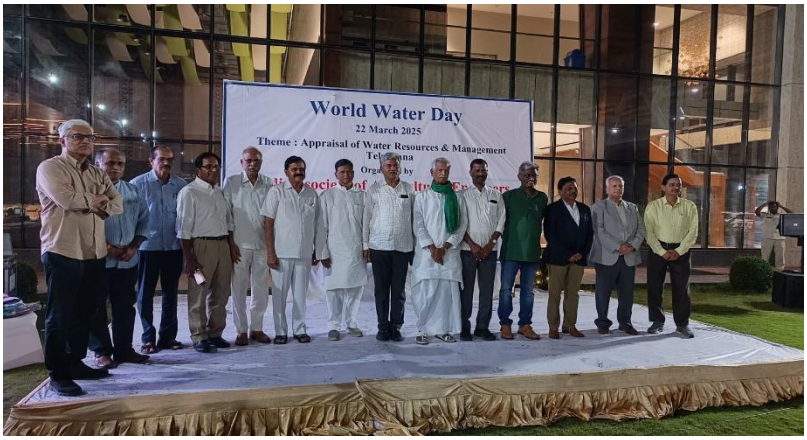
Dr. Viswanathan emphasized on the need for enhancing per capita storage of India through creation or renovation of higher number of rain water harvesting structures and public awareness campaigns on rainwater conservation and water use efficient practices in irrigated commands.

Dr. Padaria briefed the house about importance of participatory water resource development and renovation and management of rainwater harvesting structures through community engagement models. The second Issue of Hindi Magazine ‘Jal Suraksha’ (Chief Editor : Dr. A.K. Mishra, Principal Scientist, WTC) published by Water Technology Centre, ICAR-IARI was released by the Chief Guest and Guests of Honour on this occasion. Overall, about 100 delegates comprising of researchers, academicians, staff and students of ICAR-IARI, ICARNBPGR, International Water Management Institute and other institutes located in New Delhi and CSKHPKV, Palampur have actively participated in this programme. Dr. Vijay Kumar Prajapati, Scientist, WTC coordinated this programme.

Source: ICAR-Indian Agricultural Research Institute, New Delhi

ISAE Telengana Chapter Organized a High-Profile Conference on World Water Day

ISAE Telangana Chapter organized a high-profile conference in Telangana's Water Management at Shloka Convention, Kongarakalan on the occasion of World water Day.
The event witnessed the participation of eminent national and international scientist, water experts and key govt. officials reflecting the critical nature of the discussion.



Water: The Lifeline of the Future – Experts Call for Sustainable Management

DECCAN NEWS SERVICE
HYDERABAD

In a compelling discourse on the urgent need for water conservation, the Indian Society of Agricultural Engineers, Telangana Chapter, organised a high-profile conference on Telangana's Water Resources & Water Management at Shloka Convention, Kongarakalan on Saturday on the occasion of World Water Day .

The event witnessed the participation of eminent national and international scientists, water management experts, and key government officials, reflecting the critical nature of the discussions.

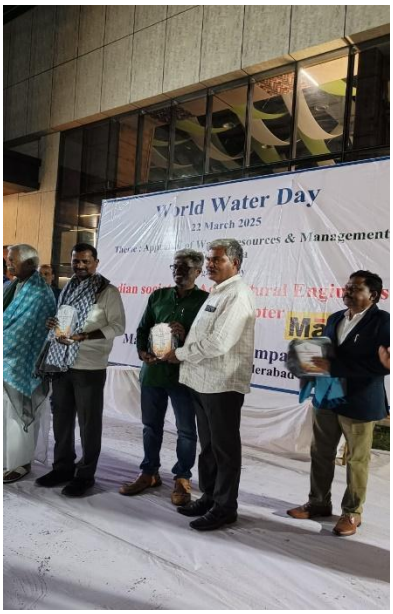
Dr G. Chinna Reddy, Vice Chairman of the Telangana State Planning Commission, underlined the stark reality of depleting water resources, stating that water conservation is not merely a choice but an absolute necessity for the survival of future generations. He stressed that proactive policy changes, community participation, and innovative irrigation techniques are vital in addressing the impending water crisis. He further highlighted the role of sustainable agriculture, rainwater harvesting, and groundwater recharge as indispensable strategies in securing Telangana's water future.

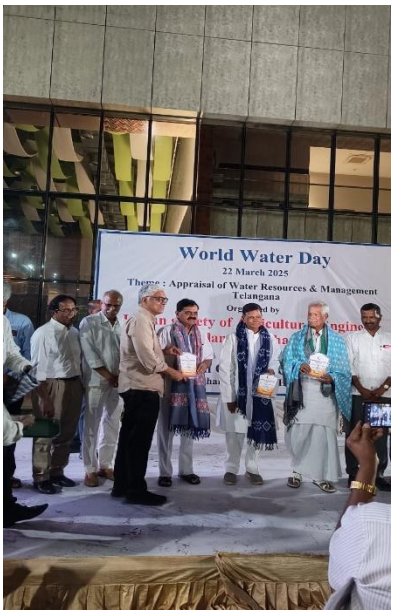
M. Kodanda Reddy, Chairman of the State Commission for Agriculture and Farmers' Welfare, echoed similar concerns, urging the adoption of efficient irrigation systems to ensure optimal use of available resources. He called upon policymakers to integrate modern water conservation technologies with traditional wisdom to create a robust framework for water management.

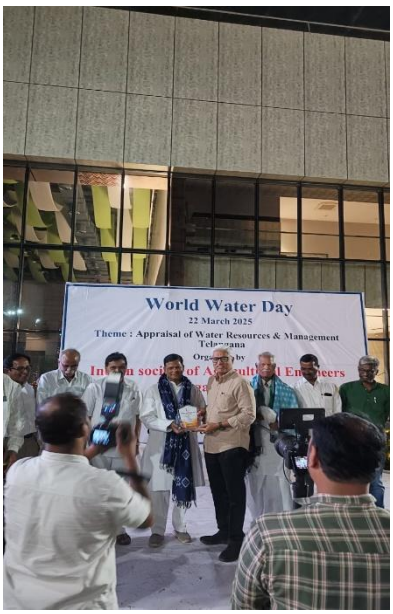
Distinguished personalities such as MLC Nellikanti Satyam, former MLA Palla Venkat Reddy, Padma Shri awardee and progressive farmer Chintala Venkat Reddy, international water management expert Dr K. Ellareddy, and national expert P.R.B. Sundar Rao also shared their insights. They collectively underscored the need for responsible water usage, reinforcing that without a concrete strategy for conservation, the state's agricultural and drinking water needs would face severe challenges in the coming decades.

Speakers at the conference highlighted that reckless water consumption could lead to irreversible damage, urging citizens to adopt a judicious approach in their daily usage. They advocated for a well-structured policy on water distribution, irrigation efficiency, and conservation methodologies, which would ensure long-term sustainability.

The discussions concluded with a resounding appeal for the government and the public to work hand in hand to implement necessary reforms in water governance. The conference served as a crucial reminder that water is not merely a resource but the very foundation of life, demanding immediate and sustained action for its protection.







Union Agriculture Minister Shri Shivraj Singh Chauhan's Brazil visit becomes important on many counts

Union Agriculture & Farmers' Welfare and Rural Development Minister Shri Shivraj Singh Chouhan made a visit to Brazil, this visit is important on many counts. Besides leading the Indian delegation at the 15th BRICS Agriculture Ministers' Meeting, the Union Minister's visit is an important step towards strengthening agricultural trade, technology and innovation between India and Brazil. During Brazil visit, the Union Minister stressed on promoting production and export of soya in India. He intends to upgrade Indian farmers by enabling them the benefits of global technologies. He said that joint efforts of various countries will strengthen global food security.

During his Brazil visit, Union Minister Shri Shivraj Singh mainly expressed his concerns related to small farmers of India. He said that unless the small farmers are protected and empowered, the goal of global food security will remain incomplete. The Union Minister said that India is fully committed to inclusive, equitable and sustainable agriculture. Echoing the spirit of "Vasudhaiva Kutumbakam", he said that India always follow the message of trust and cooperation with all countries. He called for enhanced cooperation in agricultural technology, innovation, capacity building and trade facilitation so that farmers and agricultural enterprises of various countries can benefit. On the BRICS platform, India called for further strengthening cooperation in agricultural technology transfer, research, food processing and trade. Shri Chauhan's address, on behalf of India, focused on global food security, empowerment of small farmers, agricultural innovation and technological cooperation and advancing partnership with BRICS countries.

Altogether, Shri Chouhan's visit to Brazil is not just a diplomatic but also a concrete initiative towards technological innovation, production increase and global partnership for Indian agriculture, which can yield direct benefits to the farmers.

The 15th BRICS Agriculture Ministers' Meeting, held in Brasilia, was attended by Agriculture Ministers/Senior Officials from India, host Brazil and BRICS member countries including Russia, China, South Africa, Saudi Arabia, Egypt, UAE, Ethiopia, Indonesia and Iran. The main theme of the meeting was "Promoting inclusive and sustainable agriculture through cooperation, innovation and equitable trade among BRICS countries".

Besides participating in the 15th BRICS Agriculture Ministers' meeting, Shri Chouhan's visit is expected to give a new direction to agricultural cooperation between India and Brazil. This will boost agricultural trade between the two countries. The Union Minister expressed his desire to share knowledge with Brazil on climate-friendly soyabean varieties, mechanization, precision farming and sustainable agricultural practices. He also expressed his desire to learn from Brazil's agricultural model, mechanization, irrigation and research and implement it in Indian agriculture so that maximum benefits can be transferred to the farmers.

Union Agriculture Minister Shri Shivraj Singh Chauhan's Brazil visit becomes important on many counts

Cooperation in the areas of biofuel, bioenergy, supply chain integration and agricultural machinery was discussed during the meetings which would enable Indian farmers to have access to global technology. Joint efforts of the two countries will also strengthen global food security as Brazil has achieved tremendous growth in agricultural exports in the last 50 years, an inspiration for India as well.

Shri Shivraj Singh Chouhan also held bilateral meetings with Brazil's Minister of Agriculture and Livestock, Carlos Henrique Baquetta Favero and Minister of Agricultural Development and Family Agriculture, Luiz Paulo Teixeira. During these meetings, the issues of enhancing cooperation in the areas of agriculture, agro-technology, rural development and food security were discussed. The Union Minister also met 27 members of Brazil's agribusiness community at Sao Paulo. During this meeting, possibilities of cooperation on agricultural trade, production technology, food processing, biofuel, technological innovation and supply chain integration were discussed.

Union Minister Shri Chouhan visited soyabean production plant, tomato farm and other institutes in Brazil and closely observed the latest technologies related to mechanization, irrigation and food processing. Currently India imports soyabean oil, but now both the countries are jointly exploring the possibilities of investing and setting up technology and plants for soyabean production and processing. This can boost soyabean production and export in India. Shri Chouhan said that there is a plan to work together with Brazil to increase soybean production and processing in India. Besides, possibilities of cooperation between the two countries in mechanization and seed research will also be explored.

Union Minister Shri Shivraj Singh Chouhan’s routine of planting a sapling every day continued in Brazil as well. He participated in the tree plantation drive at the Indian Embassy in Brasilia under the initiative 'Ek Ped Maa Ke Naam', promoting environmental protection and respect for motherhood. Shri Shivraj Singh also met the Indian diaspora at Sao Paulo in Brazil and appreciated their role in bilateral relations. He said that this is the Amrit Kaal of our independence under the leadership of Prime Minister Shri Narendra Modi. In 2047, we will complete 100 years of independence and our goal is to make India a developed nation by then.

Union Minister Shri Shivraj Singh said, “During my stay in Brazil, I got the opportunities to enrich myself with various experiences and techniques. We will utilize these technologies to increase production in India. I am confident that the mutual cooperation between India and Brazil will empower our farmers and give a new direction to global food security.”

This visit is an important step towards India-Brazil agricultural cooperation, partnership with BRICS countries and accelerating innovation and sustainable growth in Indian agriculture, Shri Singh added.


BRICS 2025
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Promotion of New Technologies in Agriculture

The Sub-Mission on Agricultural Mechanization' (SMAM), one of the Centrally Sponsored components of the Rashtriya Krishi Vikas Yojana (RKVY) is implemented through the State Governments. Under SMAM, financial assistance is provided to the farmers for purchase of various agricultural machines and equipments including the post-harvest and processing technologies on individual ownership basis. Financial assistance is also provided for establishment of Custom Hiring Centres (CHCs) and Village Level Farm Machinery Banks (FMBs) in order to provide machines and equipments to the farmers on rental basis as per their requirements. Financial assistance under SMAM is also provided for demonstration of kisan drones on farmers' fields, purchase of drones by the farmers on individual ownership basis and establishment of Custom Hiring Centres of Kisan drones for providing services of drones to farmers for agriculture purpose.

The Government has approved Central Sector Scheme 'NAMO DRONE DIDI' for providing 15,000 Drones to the Women Self Help Groups (SHGs), during the period of 3 years (2023-24 to 2025-26) with a view to provide sustainable business and livelihood support to them. Lead Fertilizer Companies (LFCs) have distributed 1094 drones to drone didis of SHGs in 2023-24 using their internal resources. Out of these 1094 drone distributed to drone didis, 500 drones have been distributed under the Namo Drone Didi Scheme. The remaining 14500 drones under the scheme has been targeted to be distributed by the end of financial year 2025-26.

The Government has approved the Digital Agriculture Mission in September 2024 with an outlay of Rs. 2817 Crore. The Mission seeks to enable a robust digital agriculture ecosystem in the country for driving innovative farmer-centric digital solutions and making available timely and reliable crop-related information to all the farmers in the country. The Mission envisages the creation of Digital Public Infrastructure for Agriculture such as Agristack, Krishi Decision Support System, Comprehensive Soil Fertility & Profile Map and other IT initiatives undertaken by Central/State Governments. 'Kisan e-Mitra' an Artificial Intelligence (AI) powered chatbot has been developed to assist farmers with responses to queries about the PM Kisan Samman Nidhi Scheme

The Institutes under the Indian Council of Agricultural Research (ICAR) are conducting research on drone spraying systems and droplet deposition characteristics with the objectives of enhancing the efficiency and effectiveness of pesticide and liquid fertilizer applications. An AI enabled mobile device has been developed for real time identification of abiotic stress in field crops, which assist crop breeding and precision crop input management. The institutes have also developed different precision farming technologies such as Smart sprayer for pomegranate young orchards, Automatic Spraying System for Polyhouse, Lab based robotic transplanter for plug-type vegetable seedlings, Unmanned multi-purpose track-type vehicle, Autonomous weeder for wide spaced field crops, Robotic harvester for poly-house cultivated tomatoes, Image based automatic hand held diseases identification device for soybean by application of deep learning, Image based variable-rate nitrogen applicator, Controller based feed dispensing system for poultry, Water Stress Indices using Spectral Reflectance and Thermal Imaging in Field Crops, Deep placement fertilizer applicator as an attachment to rice transplanter etc.

Soil Health & Fertility Scheme is implemented by the Government since 2014-2015, wherein Soil Health Cards (SHCs) are issued to farmers to improve the health of the soil. SHCs encourage judicious use of fertilizer, secondary micronutrients along with organic manures & bio-fertilizers. Soil samples are processed through standard procedures and analyzed for 12 parameters viz. pH, electrical conductivity, Organic Carbon, available Nitrogen, Phosphorus, Potassium, Sulphur, and micronutrients (Zinc, Coper, Iron, Manganese & Boron). SHCs provide information on nutrient status of soil and recommendations on appropriate dosage & type of fertilizers for improving soil health and its fertility. Since 2014-15 and as on 31 March 2025, 24.90 Crore SHCs have been generated across the country. Under the scheme, 1068 Static Soil Testing Laboratories, 163 Mobile Soil Testing Laboratories, 6376 Mini Soil Testing Laboratories and 665 Village Level Soil Testing Laboratories have been established across the country. To educate farmers, around 7.0 lakh demonstrations, 93781 farmer's training programmes and 7425 farmer's mela have been organized across the country. In addition, 70002 Krishi Sakhis are trained to support farmers in understanding SHCs.

Source - https://pib.gov.in/PressReleasePage.aspx?PRID=2118770

ICAR-CIPHET Ludhiana got first patent in PCT county/USA on process development for manufacturing protein isolate through microbial route from de-oiled cake

Ludhiana, March 22, 2025: Oilseed cakes, traditionally considered a by-product of oil extraction, are inherently rich in nutrients. Recognizing this untapped potential, ICAR-CIPHET, Ludhiana, has developed an innovative microbial technology to convert these oilseed cakes into high-quality protein isolates/concentrates suitable for food applications and Gaurav W. Bagekar Central Biotech Pvt. Ltd., Nagpur approached ICAR-CIPHET for this technology. Research team comprises of Dr. D.N. Yadav, Dr. Sangita Bansal, Dr. Surya, Dr. Swati Sethi, Dr. R.K. Singh, Dr. S.N. Jha and Dr Suman Kapila. Dr. Ranjeet Singh, Head ToT and I/c ITMU facilitated this activity. Dr. Nachiket Kotwaliwale, Director, ICAR- CIPHET, awarded the licensing agreement and certificate upon successful completion of training and assured the licensee of continued support for establishing and scaling up the venture.

Agrinnovate India Limited Pays Dividend of Rs.1.42 crore for FY 2023–24 to ICAR

Agrinnovate India Limited (AgIn), a Government of India enterprise under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture and Farmers Welfare, has declared a dividend of Rs.1,42,23,513 for the financial year 2023–24. The dividend distribution complies with guidelines issued by the Department of Investment and Public Asset Management (DIPAM). This is the first time the AgIn has paid the dividend since its inception.

The dividend cheque was formally presented to Union Minister for Agriculture and Farmers' Welfare Shri Shivraj Singh Chouhan in New Delhi today. The event was also graced by the presence of Secretary, Department of Agriculture & Farmers' Welfare Dr. Devesh Chaturvedi and Director General, Indian Council of Agricultural Research (ICAR) Dr. M.L. Jat. This announcement reflects AgIn's continued financial strength and strategic vision, under the leadership of Dr. Praveen Malik, Chief Executive Officer, Agrinnovate India Ltd.

Established in 2011, Agrinnovate India Ltd. serves as the commercial arm of ICAR, bridging agricultural research and practical implementation. AgIn plays a pivotal role in transferring, valorizing, and scaling agri-technologies across India to benefit farmers and entrepreneurs. The dividend declaration underscores AgIn's commitment to financial sustainability, institutional accountability, and its broader mission of advancing India's agricultural innovation ecosystem.

Center Pivot Irrigation System Installed in UP

Centre pivot irrigation system of 30 ha size installed in Rangoli Village Jalaun Distt. UP. This the 1st Centre pivot system to be installed in Uttar Pradesh State in framer's field by the Horticulture deptt. , Govt of UP. By this irrigation system 26 farmers will get benefitted. The system is proven technique for water saving and improving the irrigation efficiency.

This the first of its kind of community irrigation system using center pivot system (large system) in India.

Center Pivot Irrigation System Installed in UP

विकास और विरासत को संजोने का काम कर रही सरकार : राज्यमंत्री

कहा- प्रधानमंत्री व मुख्यमंत्री ने बुंदेलखंड में विकास कार्यों को दी रफ्तार

पौधारोपण के साथ विभागों के स्टालों का निरीक्षण

किसानों की बात

जनपद में सेंट्रल पीवोट इरीगेशन सिस्टम के पायलेट प्रोजेक्ट का किया निरीक्षण

- तकनीक को अन्य क्षेत्रों मे फैलाने और किसानों को आधुनिक सिंचाई सुविधाओं से जोड़ने के लिए प्रदेश सरकार प्रतिबद्ध – मंत्री श्री दिनेश प्रताप सिंह .
- मुख्य सचिव ने इस परियोजना की सराहना की और इसके विस्तार पर विचार करने के निर्देश दिए

पायलेट प्रोजेक्ट का निरीक्षण करते राज्यमंत्री दिनेश प्रताप सिंह व मुख्य सचिव मनोज कुमार सिंह।

उरई (सू०वि०)। प्रदेश के उद्यान, कृषि विपणन, कृषि विदेश व्यापार एवं कृषि निर्यात राज्यमंत्री (स्वतंत्र प्रभार) श्री दिनेश प्रताप सिंह ने शनिवार को मुख्य सचिव श्री मनोज कुमार सिंह के साथ जनपद मे सेंट्रल पीवोट इरीगेशन सिस्टम के ग्राम रगौली मे पायलेट प्रोजेक्ट का स्थलीय निरीक्षण किया। उन्होने कहा कि इस सिस्टम से एक तरह की फसल पैदा करने का क्षेत्र के साथ ही विपणन और निर्यात का केंद्र भी हो सकेगा। कृषि क्षेत्र मे जल सरंक्षण एवं वैज्ञानिक सिंचाई तकनीको को बढ़ावा देने की दिशा में यह परियोजना एक महत्वपूर्ण कदन है। यह प्रणाली किसानो को न्यूनतम जल खपत मे अधिकतम उत्पादन प्राप्त करने मे सहायता करेगी। प्रदेश सरकार द्वारा उन्नत तकनीको के माध्यम से कृषि सुधार हेतु निरंतर प्रयास किए जा रहे है और भविष्य मे इस प्रकार की योजनाओ का विस्तार किया जाएगा। मा० उद्यान मंत्री जी द्वारा परियोजना स्थल के स्थलीय निरीक्षण के दौरान तकनीक के प्रभाव एवं लाभो का आकलन किया गया। उन्होने सम्बन्धित अधिकारियो को निर्देशित किया कि इस पद्धति को अन्य क्षेत्रो मे भी अपनाने हेतु जागरूकता अभियान चलाया जाए। इस परियोजना से किसानो को सिंचाई की लागत मे कमी आएगी और वे अधिक टिकाऊ कृषि पद्धतियों को अपनाने के लिए प्रेरित होगे। उन्होने कहा कि उत्तर प्रदेश का पहला सेंटर पीवोट इरीगेशन सिस्टम जनपद मे स्थापित किया गया है। सेंटर पीवोट इरीगेशन सिस्टम के प्रयोग से जल की बचत होगी, साथ ही किसानो को उच्च गुणवत्ता वाली फसल प्राप्त करने मे मदद मिलेगी। यह परियोजना प्रणाली सामुदायिक खेती एवं क्लस्टर निर्माण मे सहायक सिद्ध होगी, साथ ही विपणन एवं निर्यात का केंद्र भी हो सकेगा। सरकार इस प्रकार की योजनाओ को अन्य जिलो मे भी लागू करने के लिए प्रतिबद्ध है ताकि प्रदेश के सभी किसानो को आधुनिक सिंचाई सुविधाओं का लाभ मिल सके। ल निरीक्षण के दौरान अधिकारियों ने बताया कि यह सेंटर पीवोट इरीगेशन सिस्टम आधुनिक कृषि तकनीक का एक प्रभावी माध्यम है, जो जल संरक्षण और फसल उत्पादन को बढ़ावा देता है। इस तकनीक के माध्यम से सिंचाई उपकरण धुरी के चारो ओर घूमता है और स्प्रिंकलर के माध्यम से फसलों को पानी उपलब्ध कराता है, जिससे जल का समुचित उपयोग संभव होता है। इससे कृषि उत्पादकता मे वृद्धि करने मे सहायक होगी।

इस परियोजना से 30 हेक्टेयर क्षेत्रफल भूमि के 26 किसान लाभावित होगे–

मुख्य सचिव श्री मनोज कुमार सिंह ने इस परियोजना को कृषि क्षेत्र मे एक महत्वपूर्ण कदम बताते हुए कहा कि इससे क्षेत्रीय किसानो को नई तकनीको से जोडकर उनकी आय मे वृद्धि की जा सकती है। उन्होने परियोजना की प्रगति की सराहना की और आगे के विस्तार की संभावनाओ पर विचार करने के निर्देश दिए। उन्होने बताया कि फसल सिंचाई की आधुनिक पद्धति को बढ़ावा देने के उद्देश्य से ग्राम रगौली, विकासखंड डकोर, जनपद मे सेंटर पीवोट इरीगेशन सिस्टम का पायलेट प्रोजेक्ट स्थापित किया गया है। यह परियोजना कार्यदायी संस्था, उद्यान विभाग एव WRG2030 के सहयोग से 30 हेक्टेयर क्षेत्रफल भूमि मे संचालित की जा रही है। क्षेत्र के 26 किसान लाभान्वित हो रहे है। "जीरो पावर्टी" के महत्व पर जोर देते हुए उन्होने प्रदेश को गरीबी मुक्त बनाने के लिए सरकार द्वारा उठाए जा रहे कदमो और भावी योजनाओं की जानकारी दी। उन्होंने कहा कि मा० मुख्यमंत्री जी के नेतृत्व में राज्य सरकार समाज के अंतिम व्यक्ति तक विकास की किरण पहुचाने के लिए प्रतिबद्ध है। "जीरो पावर्टी" का लक्ष्य केवल एक संकल्प नही, बल्कि समावेशी विकास की दिशा मे एक ठोस पहल है। उन्होने बताया कि विभिन्न कल्याणकारी योजनाएं जैसे कि प्रधानमंत्री आवास योजना, उज्ज्वला योजना, आयुष्मान भारत, पेंशन योजनाएं और स्वय सहायता समूहो के माध्यम से लाखो गरीब परिवारो को आर्थिक रूप से सशक्त किया जा रहा है। उद्यान एवं खाद्य प्रसंस्करण विभाग द्वारा विकसित योहदपुरा नर्सरी प्रक्षेत्र व कृषि उद्यान केन्द्र कस्बा मल्लू मे निर्मित हाईटेक नर्सरी का लोकार्पण उत्तर प्रदेश सरकार में स्वतंत्र प्रभार राज्य मंत्री श्री दिनेश प्रताप सिंह ने किया। इस अवसर पर उन्होने विभाग की उपलब्धियों की सराहना करते हुए किसानो को आधुनिक तकनीको से जुडने का आह्वान किया। हाईटेक नर्सरी के माध्यम से क्षेत्रीय कृषको को उन्नत किस्म के पौधो की उपलब्धता सुनिश्चित की जाएगी।

जिला पंचायत अध्यक्ष डॉ घनश्याम अनुरागी, विधान परिषद सदस्य रमा निरंजन, सदर विधायक गौरीशंकर वर्मा, माधौगढ़ विधायक मूलचंद निरंजन, कालपी विधायक विनोद चतुर्वेदी, गौसेवा अध्यक्ष श्याम बिहारी गुप्ता ने विस्तार से जानकारी दी।

इस अवसर पर मंडलायुक्त विमल कुमार दुबे, डीआईजी केशव कुमार चौधरी, जिलाधिकारी राजेश कुमार पाण्डेय, पुलिस अधीक्षक डॉ दुर्गेश कुमार, अपर जिला अधिकारी वित्त एवं राजस्व संजय कुमार, मुख्य विकास अधिकारी राजेन्द्र कुमार श्रीवास, जल शक्ति मंत्री प्रतिनिधि अरविंद चौहान, उद्यान एवं खाद्य प्रसंस्करण विभाग के डायरेक्टर विजय बहादुर द्विवेदी, सहायक नोडल माइक्रो इरिगेशन कौशल नीरज, विश्व बैंक के प्रतिनिधि योगेश बंधु आर्या, जिला उद्यान अधिकारी प्रशांत निरंजन, परमार्थ संस्था से संजय कुमार आदि सहित सम्बधित अधिकारी व जनप्रतिनिधि मौजूद रहे।

उद्यान मंत्री एवं मुख्य सचिव ने किया सिस्टम का उद्घाटन, जिले में स्थापित हुआ देश का पहला पीवोट इरिगेशन सिस्टम

सेंट्रल पीवोट इरिगेशन सिस्टम से घटेगी लागत

शुभारंभ

सिस्टम का उद्घाटन करते उद्यान मंत्री व मुख्य सचिव व अन्य अधिकारी।

उरई, संवाददाता। उद्यान मंत्री दिनेश प्रताप सिंह एवं प्रदेश के मुख्य सचिव मनोज कुमार सिंह ने जनपद में सेंट्रल पीवोट इरीगेशन सिस्टम के पायलट प्रोजेक्ट का निरीक्षण किया। पूरे देश में यह पहली इरीगेशन प्रणाली है जिससे 26 किसान लाभान्वित होंगे और तीस हेक्टेयर क्षेत्र में न केवल कम पानी में सिंचाई सुविधा मिलेगी बल्कि किसानों की उत्पादकता बढ़ेगी।

शनिवार को हेलीकॉप्टर से पहुंचे उद्यान मंत्री दिनेश प्रताप सिंह एवं मुख्य सचिव मनोज कुमार सिंह ने ग्राम रगौली पहुंचकर सेंट्रल पीवोट सिस्टम का निरीक्षण कर उद्घाटन किया। मंत्री ने कहा कि पायलट प्रोजेक्ट से सिंचाई लागत कम होगी और टिकाऊ कृषि पद्धतियां अपनाने में मदद मिलेगी। इसके साथ ही एक तरह की फसल पैदा करने का क्षेत्र के साथ ही विपणन और निर्यात का केंद्र भी हो सकेगा। तकनीक को अन्य क्षेत्रों में फैलाने और किसानों को आधुनिक सिंचाई सुविधाओं से जोड़ने के लिए प्रदेश सरकार प्रतिबद्ध है। मुख्य सचिव ने इस परियोजना की सराहना की और इसके विस्तार पर विचार करने के निर्देश दिए। उन्होंने कहा कि कृषि क्षेत्र में जल संरक्षण एवं वैज्ञानिक सिंचाई तकनीकों को बढ़ावा देने की दिशा में यह परियोजना एक महत्वपूर्ण कदम है। सरकार द्वारा उन्नत तकनीकों के माध्यम से कृषि सुधार हेतु निरंतर प्रयास किए जा रहे हैं और भविष्य में इस प्रकार की योजनाओं का विस्तार किया जाएगा। उद्यान मंत्री ने कहा उत्तर प्रदेश का पहला सेंटर पीवोट इरीगेशन सिस्टम जनपद में स्थापित किया गया है। यह परियोजना प्रणाली सामुदायिक खेती एवं क्लस्टर निर्माण में सहायक सिद्ध होगी। सरकार इस प्रकार की योजनाओं को अन्य जिलों में भी लागू करने के लिए प्रतिबद्ध है ताकि प्रदेश के सभी किसानों को आधुनिक सिंचाई सुविधाओं का लाभ मिल सके। इस तकनीक के माध्यम से सिंचाई उपकरण धुरी के चारों ओर घूमता है और स्प्रिंकलर के माध्यम से फसलों को पानी उपलब्ध कराता है, जिससे जल का समुचित उपयोग संभव होता है। इससे कृषि उत्पादकता में वृद्धि करने में सहायक होगी। जिप अध्यक्ष डॉ घनश्याम अनुरागी, एमएलसी रमा निरंजन, सदर विधायक गौरीशंकर वर्मा, माधौगढ़ विधायक मूलचंद निरंजन, कालपी विधायक विनोद चतुर्वेदी, मंडलायुक्त विमल कुमार दुबे, डीआईजी केशव कुमार चौधरी, डीएम राजेश कुमार पाण्डेय, एसपी डॉ दुर्गेश कुमार, एडीएम वित्त एवं राजस्व संजय कुमार, सीडीओ राजेन्द्र कुमार श्रीवास, उद्यान विभाग के डायरेक्टर विजय बहादुर द्विवेदी, विश्व बैंक के प्रतिनिधि योगेश बंधु आर्य, जिला उद्यान अधिकारी प्रशांत निरंजन, संजय कुमार आदि रहे।

88 लाख 89 हजार की लागत से लगाया सिस्टम

जिले के रगौली गांव में उद्यान विभाग और विश्व बैंक की सहायता से स्थापित सेंट्रल पीवोट इरीगेशन सिस्टम की स्थापना पर 88 लाख 89 हजार की धनराशि खर्च हुई है। इससे 26 किसान लाभान्वित होंगे। इनका समूह बनाया गया है। मुख्य सचिव मनोज कुमार सिंह ने बताया कि फसल सिंचाई की आधुनिक पद्धति को बढ़ावा देने के उद्देश्य से ग्राम रगौली, विकासखंड डकोर, जनपद में सेंटर पीवोट इरीगेशन सिस्टम का पायलेट प्रोजेक्ट स्थापित किया गया है।

लाभार्थियों को मिले योजनाओं के प्रमाण पत्र

रगौली में आयोजित कार्यक्रम के दौरान लाभार्थियों को उज्ज्वला, आयुष्मान भारत, आवास योजना से लेकर विभिन्न योजनाओं के तहत प्रमाण पत्र वितरित किए गए। उद्यान मंत्री ने कहा की मुख्यमंत्री के नेतृत्व में राज्य सरकार समाज के अंतिम व्यक्ति तक विकास की किरण पहुंचाने के लिए प्रतिबद्ध है।

कार्यक्रम के दौरान युवक ने किया हंगामा

मुख्य सचिव के कार्यक्रम में पहुंचे कदौरा क्षेत्र के ग्राम सुजानपुर निवासी मुन्ना ने हंगामा किया। उसका आरोप था कि अपनी शिकायत उसने ऑनलाइन दर्ज कराई थी लेकिन संबंधित विभाग द्वारा फर्जी ढंग से निस्तारण दर्ज दिया गया। वह कार्यक्रम स्थल पर जाने की जिद पर अड़ा रहा। बाद में अधिकारियों ने उसका शिकायती पत्र लिया।

लगाए गए विभिन्न विभागों के स्टाल

रगौली में कार्यक्रम स्थल पर कार्यक्रम, उद्यान, एनआरएलएम से लेकर विभिन्न विभागों द्वारा स्टाल लगाए गए। मंत्री व मुख्य सचिव द्वारा इनका निरीक्षण किया गया। स्टालों के माध्यम से आम लोगों को विभागों के माध्यम से संचालित योजनाओं के बारे में विस्तार से जानकारी दी गई।

रगौली मॉडल बनेगा नजीर, कम बारिश वाले क्षेत्रों के लिए उपयोगी

उद्यान राज्य मंत्री और मुख्य सचिव ने किया पायलेट प्रोजेक्ट का निरीक्षण, इस प्रणाली का उद्देश्य कम संसाधनों में अधिक क्षेत्रफल की सिंचाई करना है

संवाद न्यूज एजेंसी

सेंट्रल पीवोट ड्रिप इरीगेशन सिस्टम को देखते मंत्री व मुख्य सचिव। संवाद

परमार्थ समाजसेवी संस्था के प्रतिनिधि वरुण प्रताप को सम्मानित करते मंत्री व मुख्य सचिव। संवाद

रगौली गांव जाने वाले रास्ते में पड़ी गिट्टियां। संवाद

उरई। प्रदेश के उद्यान राज्य मंत्री दिनेश प्रताप सिंह और मुख्य सचिव मनोज कुमार सिंह ने कहा कि रगौली मॉडल पूरे प्रदेश में नजीर बनेगा।

यह मॉडल उन क्षेत्रों के लिए विशेष रूप से उपयोगी सिद्ध हो सकता है, जहां बारिश कम होती है या जलस्तर गिरता जा रहा है। दोनों शनिवार को जिले के डकोर ब्लॉक के रगौली गांव पहुंचे थे।

उद्यान राज्य मंत्री और मुख्य सचिव ने रगौली में स्थापित सेंट्रल पीवोट इरीगेशन सिस्टम के पायलेट प्रोजेक्ट का निरीक्षण किया। उन्होंने कहा कि इस प्रणाली का उद्देश्य कम जल संसाधनों में अधिक क्षेत्रफल की सिंचाई करना है। इस तकनीक को प्रदेश के लिए आदर्श मॉडल बताते हुए उन्होंने कहा कि इसकी सफलता से प्रेरित होकर इसे अन्य जनपदों में भी लागू किया जा सकता है।

इससे पहले उद्यान राज्य मंत्री और मुख्य सचिव लखनऊ से हेलीकॉप्टर से उरई पहुंचे। तुरंत ही दोनों रगौली गांव चले गए। यहां पर उन्होंने 80 लाख 89 हजार रुपये से स्थापित सेंट्रल पीवोट ड्रिप इरीगेशन सिस्टम का निरीक्षण किया।

कहा कि रगौली में स्थापित प्रणाली देश की पहली पीवोट ड्रिप इरीगेशन यूनिट है, जो खेतों में किसानों के सहयोग से संचालित की जा रही है। यह सिस्टम एक बार में करीब 75 एकड़ भूमि की सिंचाई करने में सक्षम है। इसमें जलस्रोत के रूप में सात लाख क्यूबिक मीटर क्षमता वाला तालाब तैयार किया गया है। उन्होंने कहा कि इस प्रणाली से लगभग 26 किसान सीधे लाभान्वित हो रहे हैं।

मंत्री व मुख्य सचिव के आने पर गिट्टी से भरवाए गए गड्ढे

उद्यान मंत्री दिनेश प्रताप सिंह व मुख्य सचिव मनोज कुमार सिंह को 4 अप्रैल को आना था। लेकिन वह नहीं आ सके थे। दो दिन का समय मिलने के बाद भी अधिकारी गांव जाने वाले रास्ते में हुए गड्ढों को डामर से नहीं भरवा पाए। गांव के किनारे कई जगह हुए गड्ढों में गिट्टी डालकर कोरम पूरा कर लिया गया। लोगों का कहना है कि दो दिन से गांव में खूब साफ सफाई की गई। अगर ऐसे ही अधिकारी आते रहें तो उनका गांव अच्छा हो जाएगा।

मुख्य सचिव ने प्रणाली को रगौली मॉडल का नाम देते हुए कहा कि यह परियोजना न केवल तकनीकी रूप से उन्नत है, बल्कि जल संरक्षण और कृषि उत्पादन बढ़ाने की दिशा में स्थायी समाधान है। राज्यमंत्री ने कहा कि मुख्यमंत्री किसानों की आय दोगुनी करने के लिए तकनीकी नवाचारों को बढ़ावा दे रही है।

क्या है सेंट्रल पीवोट इरीगेशन सिस्टम

सेंट्रल पीवोट इरीगेशन सिस्टम की केंद्र धुरी सिंचाई प्रणाली है। इसके तहत फसलों को पानी देने के लिए एक धुरी के चारों और घूमने वाला उपकरण इस्तेमाल किया जाता है। इस प्रणाली को जल-चक्र और वृत्त सिंचाई भी कहा जाता है।

शिकायत करने जा रहे युवक को रोका, हंगामा

उरई। मंत्री व प्रमुख सचिव जब मंच पर मौजूद थे, तभी कदौरा ब्लाक के सुजानपुर गांव निवासी मुन्ना सिंह शिकायती पत्र देने के लिए मंच के पास पहुंचे। उन्हें अधिकारियों ने रोक दिया। इस पर वह हंगामा करते हुए चिल्लाने लगा। जब डीएम व एसडीएम उसके पास पहुंचे तो वह चिल्लाते हुए अपने गले में पड़े गमछे से फंदा लगाने लगा। पुलिस उसे रोककर ले गई। इससे करीब बीस मिनट तक गहमागहमी का माहौल रहा। बताया कि आईजीआरएस में उसकी मां ने सचिव के खिलाफ गलत सर्वे करने की शिकायत की थी। इस मामले की जांच उच्चाधिकारियों से कराई जाए। डीएम ने एसडीएम को इस मामले की जांच के आदेश दिए हैं। कोतवाली पुलिस युवक को अपने साथ ले गई है। (संवाद)

इस दौरान जिला पंचायत अध्यक्ष डॉ घनश्याम अनुरागी, विधान परिषद सदस्य रमा निरंजन, सदर विधायक गौरीशंकर वर्मा, माधौगढ़ विधायक मूलचंद निरंजन, कालपी विधायक विनोद चतुर्वेदी, गोसेवा अध्यक्ष श्याम बिहारी गुप्ता ने विचार रखे।

इस दौरान मंडलायुक्त विमल कुमार दुबे, डीआईजी केशव कुमार चौधरी, डीएम राजेश कुमार पांडेय, एसपी डॉ. दुर्गेश कुमार, एडीएम संजय कुमार, सीडीओ राजेंद्र कुमार श्रीवास, सहायक नोडल माइक्रो इरिगेशन कौशल नीरज, विश्व बैंक के प्रतिनिधि योगेश बंधु आर्या, जिला उद्यान अधिकारी प्रशांत निरंजन, परमार्थ संस्था से संजय कुमार, वरुण प्रताप सिंह आदि मौजूद रहे।

CSIR-CMERI launches E-tractor, E-tiller technology to promote sustainable agriculture education

CSIR-CMERI has unveiled its latest sustainable agricultural technologies— the E-tractor and E-tiller—to demonstrate the growing importance of integrating clean energy solutions and modern technology in agricultural education. The event, focused on transforming agriculture through innovation and sustainability, was held in Ludhiana.

The demonstration, organised by the Council of Scientific & Industrial Research – Central Mechanical Engineering Research Institute (CSIR-CMERI) in Durgapur, West Bengal, aimed to showcase cutting-edge electric farming solutions that are poised to transform traditional agriculture. Designed primarily for small and marginal farmers, these technologies are noted for their low vibration, ease of maintenance, user-friendly ergonomics—especially for women—and their zero-emission advantage. The event forms part of a broader initiative to reaffirm India's commitment to green energy and sustainable practices in farming.

The event was attended by Prof Adarsh Pal Vij, chairman, Punjab Pollution Control Board, who was the chief guest, along with Nachiket Kotwaliwale, director, ICAR-CIPHET, Ludhiana, and Manjeet Singh, dean, College of Agricultural Engineering, Punjab Agricultural University. Naresh Chandra Murmu, director, CSIR-CMERI, hosted the event, followed by a launch event initiated by Jitendra Singh, Union Minister of Science and Technology and Earth Sciences, held on National Science Day at Vigyan Bhawan, New Delhi.

Prof Adarsh Pal Vij said, “This agricultural revolution is opening new avenues for farmers to connect with industry and adopt modern, sustainable practices. As we look to the future, embracing sustainability is essential, and electric vehicles mark a significant step in reducing air pollution and transforming agricultural operations. With technological advancements happening every day, it becomes our collective responsibility to ensure their optimum use. Unscientific disposal of batteries must be avoided, and proper knowledge is crucial for safe waste management. While our scientists are working on effective disposal methods, collaborative action from all stakeholders is equally important to ensure long-term environmental well-being.”

Naresh Chandra Murmu said, “The E-tractor and E-tiller represent a significant leap towards sustainable agriculture and the broader electrification of conventional farm technologies. These electric machines are not only environmentally friendly but are also engineered to match the capabilities of traditional diesel-powered tractors. Our aim is not just to showcase innovation but to drive a shift toward cleaner, cost-effective, and high-performance solutions that support farmers and promote sustainable agricultural practices across the country.”

Nachiket Kotwaliwale said, “The technologies developed by CSIR-CMERI hold great promise for transforming Indian agriculture. We encourage feedback from farmers and industry to help our scientists develop innovations that are practical and impactful, as they are committed to supporting and working with you every step of the way.”

Manjeet Singh emphasised the future impact of these innovations, saying, “Innovations like electric farm machinery are reshaping the future of agriculture with cleaner, smarter solutions. We must pair these advancements with awareness and responsibility to ensure their long-term impact and sustainability.”

Educational impact

The demonstration of these electric farm machines is not only a technological feat but also a significant educational opportunity. By integrating sustainable practices with advanced engineering, CSIR-CMERI’s initiative provides a live case study for students, researchers, and professionals in engineering and agriculture alike. The event featured interactive sessions with scientists and agricultural experts, live demonstrations of the machinery in action, and stakeholder engagements, all of which are poised to inspire future academic curricula centered on sustainable innovation.

At its core, this educational drive highlighted the importance of multidisciplinary learning—combining engineering, environmental science, and agricultural practices—to shape a future where technology and sustainability go hand in hand. This fusion of modern technology with traditional sectors served as a blueprint for integrating new methodologies into educational frameworks, ensuring that tomorrow’s professionals are well-equipped to tackle global challenges.

By actively engaging various stakeholders, including farmers, MSMEs, manufacturers, and agri-tech companies, CSIR-CMERI is fostering an environment where technology education directly translates into practical, sustainable outcomes, paving the way for a greener and more resilient agricultural ecosystem.

Source : https://www.educationtimes.com/article/newsroom/99738075/tech-news-csir-cmeri-launches-e-tractor-e-tiller-technology-to-promote-sustainable-agriculture-education

Prof. Dr. G.S. Vijaya Raghavan, awarded King Charles III Coronation Medal

Prof. Dr. G.S. Vijaya Raghavan, ISAE Fellow

Prof. Dr. G.S. Vijaya Raghavan, ISAE Fellow (LM No. 10749 / F 225) - awarded King Charles III Coronation Medal Prof. Dr. G.S. Vijaya Raghavan, Distinguished James McGill Professor and Graduate Program Director, Bioresource Engineering Department, McGill University, Macdonald Campus, Ste-Anne-de-Bellevue, Quebec, Canada, has been awarded the King Charles III Coronation Medal. This award is created by the Sovereign and administrated by the Chancellery of Honours.

This award is given to Prof. Raghavan in recognition of his exceptional and sustained contributions to the mission and goals of the Royal Society of Canada. He was presented the award on 27 March 2025 in a presentation ceremony held at Ottawa, Canada.

Vijaya Raghavan

By Command of the THE KING, the **Coronation Medal** is hereby conferred upon you in commemoration of His Majesty's Coronation as **King of Canada** and in recognition of your valuable contribution to your country

Par Ordre du ROI la **Médaille du Couronnement** vous est par les présentes conférée en commémoration du Couronnement de Sa Majesté en tant que **Roi du Canada** et en reconnaissance de votre contribution significative à votre pays

The Royal Society of Canada *27 March 2025* *La Société royale du Canada*

Obituary

Dr H S Chauhan- The first generation renowned Agricultural Engineer, mentor of teachers of our teachers and true well wisher of Agricultural Engineering profession left this world on April 7, 2025.

Dr Chauhan was born in Balrampur of Uttar Pradesh on 17 November1936. He was third batch graduate (Agri Engineering, 1954- 58) from IIT Kharagpur. He did M.Tech in SWCE from IIT Kharagpur in 1959 and PhD from Ohio State University, USA in 1967.

He was Professor (1969-96) and Prof.-cum-Head Agri.Engg. (1971-80), Dean, College of Technology, (1980-84) including additional charge of Pro Vice-Chancellor, Professor & Head Irrigation and Drainage Engg. (1984-87) and Dean College of Post Graduate Studies (1987- 90) of College of Technology, G.B. Pant Univ. of Agri. & Tech. He was Member, Land Reclamation and Drainage team to Iraq, (1974-75).

He was recipient of 1975-76; ICAR Rafi Ahmed Kidwai Award (1875-76), ISAE Award for Education (1986); G.B.Pant Memorial Gold Medal (1993) ISAE Gold Medal (1995) ; ISAE Lifetime Work Award (1999); ISAE Mason Vaugh Agricultural Engineering Pioneer Award, (2018). He was a fellow of the National Academy of Agriculture Sciences Indian National Academy of Engineering; Indian Society of Agricultural Engineers; Institution of Engineers (India).

He was the one who was always available for the cause of Agricultural Engineering and Agricultural Engineers. When, in 1993 the SWCE was removed from ARS and we were struggling to get it restored, Dr H S Chauhan and Dr A M Michael were the first to write letters to all concerned who were involved in making decisions. I have preserved the copy of the letters written by them. The Agriculture Engineering profession has lost a true well wisher.

Heartfelt condolences. May the departed Soul rest in peace.

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LM-14155	Dr. Geeta Kumari
LM-14156	Er. Almas Begum Adoni
LM-14157	Dr. Mukul Kumar Dubey
LM-14158	Er. Divyaprabha V
LM-14159	Er. Bivek Chakma
LM-14160	Er. Mayank Maurya
LM-14161	Dr. Gagandeep Kaur
LM-14162	Er. Anupam Sahoo
LM-14163	Er. Mrunalini Humbare
LM-14164	Dr. Madhuresh Dwivedi

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AM-7028	Dr. Jaskirandeep Kaur
AM-7029	Er. Vishwanath K.

Institutional Members

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IM-40	OUAT, Bhubaneswar
IM-41	NIRJULI, Arunachal Pradesh

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Student Members

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SM-7265	Praveena S.
SM-7266	Tamil Selvan.V
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SM-7271	N. M. Ishitha
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ISAE Executive Committee (2021-2025)

1	S.N. Jha	President	president@isae.in snjha_ciphet@yahoo.co.in	
2	Indra Mani	Immediate Past President	maniindra99@gmail.com	
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6	A.K. Thakur	Treasurer	drakthakur65@gmail.com	
7	Dr. Adlul Islam,	Editors-in-Chief (JAEI)	chiefeditorjaei@isae.in	
8	Er. Mamta Jain	Editor-in-Chief (AET)	chiefeditoraet@isae.in	
9	T.K. Khura	Secretary-I	tapankhura2020@gmail.com	
10	Chandra Shekhar	Secretary-II & Editor-in-Chief (e-Newsletter)	Chiefeditorenewsletter@isae.in agm.engg@indiaseeds.com	

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Contact details
Secretary General: Dr. P K Sahoo
(isae1960@gmail.com)
INDIAN SOCIETY OF AGRICULTURAL ENGINEERS
G-4, A-Block (Ground Floor),
National Agricultural Science Centre Complex,
Dev Prakash Shastri Marg, Pusa Campus, New Delhi-110012
Tel: 011-21520143
Website:www.isae.in
ISAE GSTIN NO.: 07AAATI6307C1Z3