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# e-NEWSLETTER INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

.... Connecting Engineers in Agriculture

March - April, 2023



5600 + Life Members

36 Chapters

2 Scientific Journals

Published by  
**INDIAN SOCIETY OF AGRICULTURAL ENGINEERS**

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## Message From The President



***Dear All!** You have noticed that the Indian society of Agricultural Engineers has gained momentum and its activities are increasing at increasing rate. The ISAE Council, Executive committee, and advisory committee have met once, twice and once respectively during this two months period. Editorial board meetings, chapters' meeting presided by the vice president Activity council have also been held. Several decisions and review of implementation of previous decisions were the major theme of these meetings. We are constantly working on improvement and recognition of our JAEI and you all were overwhelmed when JAEI was given SJIF of 6.266 for 2021. It was really a joyous moment for all of us in general and younger professional particular. We are trying to get it indexed in RJIF, Agricola, CABI, Google scholar etc. All these are slowly become possible because we have now true online Journal management system.*

***Dear Friends!** The Society has first time drawn an annual plan of activities in advance and has put on website. Hope all of you will surely participate in all activities and made the society much more vibrant. The ISAE has entered in business of developing standards for agricultural machines and products. To begin with two committees one for developing standard for manufacturing agricultural drones and other for developing standards/guidelines for storage structures. Two dedicated groups of senior fellows have also been identified for pursuing the case of Directorate of Agricultural Engineering. **The Agricultural Engineering division of ICAR has also submitted a report** on why and how the directorate can be opened in each state to DoAFW, Government of India. Few states have made committees/announced action, while others need further push.*

***Dear Agrineers!** The society office has also been strengthened purchasing new desktops for office and a new laptop for the chief editor of JAEI. We have started membership drive, but response is not so encouraging as that was in last year. I personally have requested in writing to many organizations and companies to become Institutional/ corporate members, but only few have come forward and enrolled themselves. Data updation on our new website is also not so encouraging. We have more than five thousand members, but hardly 50 % have updated their profile. Once again request you through this column to help get updated profile of members and enrolment of new members. The heavily discounted training programmes for researcher and industries and academia meets for corporate/Institutions have been planned to boost the interest. **To grow society further and be known amongst majority of stakeholders, we have decided to make AET as a cheap magazine like India today and be sold at magazine corners in major cities and town.***

***Dear ISAEian!** You have come to know that the 57th ISAE convention and International Symposium this time is going to be held during 6th – 8th November 2023 at UAS Raichur, Karnataka. **Friends!** you will be surprised to know that this is the firstever convention of ISAE in Karnataka. On behalf of ISAE and the organizer request you all to reserve your dates and participate in this gala event. **Please come! Join us!** Make the ISAE the most sought for scientific society of of the country.*

S N Jha  
President, ISAE

## From the Editor-in-chief's Desk



*It is pleasing to note that The Indian Society of Agricultural Engineers (ISAE) is moving into a new phase of its development, and several steps has been taken by the EC in this regards. Efforts are being made for Deptt. of Agricultural Engineering in IITs and NITs, Sperate directorates in State, and efforts for expanding the activities of ISAE etc.*

*Agriculture accounts approximately 70% usage of fresh water in the form of both surface and ground water for agriculture needs. In order to overcome the scarcity of water, it is required to make judicious use of available water and efforts should be made for improving the irrigation efficiency for water saving, and understating the importance of water, ISAE celebrated the World Water day 2023 across the country in various chapters.*

*This newsletter is featured with glimpses of efforts made through activities, training program and advancement in the field of agriculture engineering conducted during this period of March - April2023 across the country by various agricultural engineering institutes for dissemination of knowhow to all stakeholders. I hope the content on various technologies through this e-newsletter will give takeaways on latest technologies to Agricultural Engineering professionals in introducing and implementing the same.*

*Your suggestions, feedback are also solicited for further improvement of this mouthpiece of ISAE.*

**Chandra Shekhar**  
Chief Editor



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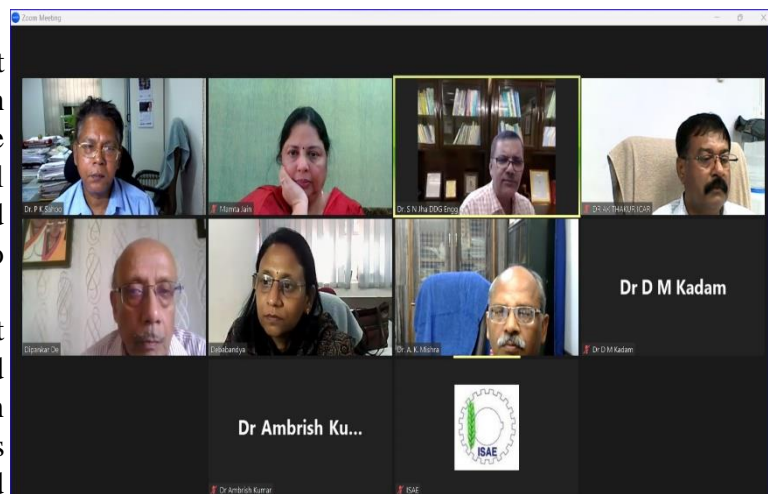
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## ISAE Happenings

### The 15<sup>th</sup> Executive Council Meetings held on dated 03.03.2023

The 15<sup>th</sup> ISAE Council meeting was held on 03.03.2023 in Zoom platform. In the meeting The Secretary General discussed about the action taken based on the proceedings of previous EC meeting after his welcome address and a brief address by the President ISAE. The proceedings of previous ISAE Council meeting were accepted and following few points were discussed and decided with consensus:

1. For evaluation of JAEI by SJIF, the Executive Committee approved 50 USD and Dr. Debandnya was requested for the needful.
2. The annual plan was presented by the Vice-President (Technical Council). It was suggested to include Conceptation for ISAE calendar-2024 and the proposed Industry-Academia meet by ISAE Delhi Chapter in the activities. The number of activities may be restricted to 6-7 only in whole year and be submitted in few days.
3. The online training by ISAE on writing research proposals and research papers for high Impact Factor journals will be conducted. The training fee for Life members is decided as Rs.500/- and for non-members fee is Rs.5000/-. The trainings may be conducted from April, 2023 and the same may be included in the activity list and be notified in ISAE website within few weeks.
4. The meeting with the State Chapters proposed to be conducted regularly. The Vice-President (Activity Council) was requested to convene the meeting and if time permits the President, ISAE may join the meeting. This may be done in two/three months interval.
5. A notification/advertisement should be made for hiring of English Editor for JAEI on ISAE website and through other digital media.
6. The proposal for hiring of IT professional for society work was kept in abeyance. Er. Mamta Jain, Chief Editor, AET was suggested to chalk out the modalities to collaborate with Appolo tyre for ISAE being the knowledge partner
7. For printing cost of AET was discussed and suggested to convene a meeting of Printers, Editor-in-chief, Secretary General and if possible President ISAE.
8. Marketing of AET through magazine shops in Bhubaneswar and Pusal Muzaffarpur was discussed. It was decided to send desired copies to both chapters for the purpose from March 2023 issue for selling in public
9. Listed work assigned to different officials of EC by President through WhatsApp on Feb 9 2023 needs to be done on priority. President requested all to complete them in stipulated period and requested Secretary general to pursue them
10. Issue of printing of AET in different Indian languages was discussed and decided that we should publish only in Hindi, because of problems in logistics and lack of manpower in the society and the same should be done on priority.



## ISAE Happenings

### The 16<sup>th</sup> EC Meetings held on dated 02.04.2023

The 16<sup>th</sup> ISAE executive committee meeting was held on 02.04.2023 in Zoom platform. In the meeting the Secretary General welcomed all the members and briefed them about the agenda of meeting, he further discussed about the action taken based on the proceedings of previous EC meeting. Thereafter the president ISAE encouraged Executive committee members to put their sincere efforts to accomplish the committee target. The following few points were discussed and decided with consensus:

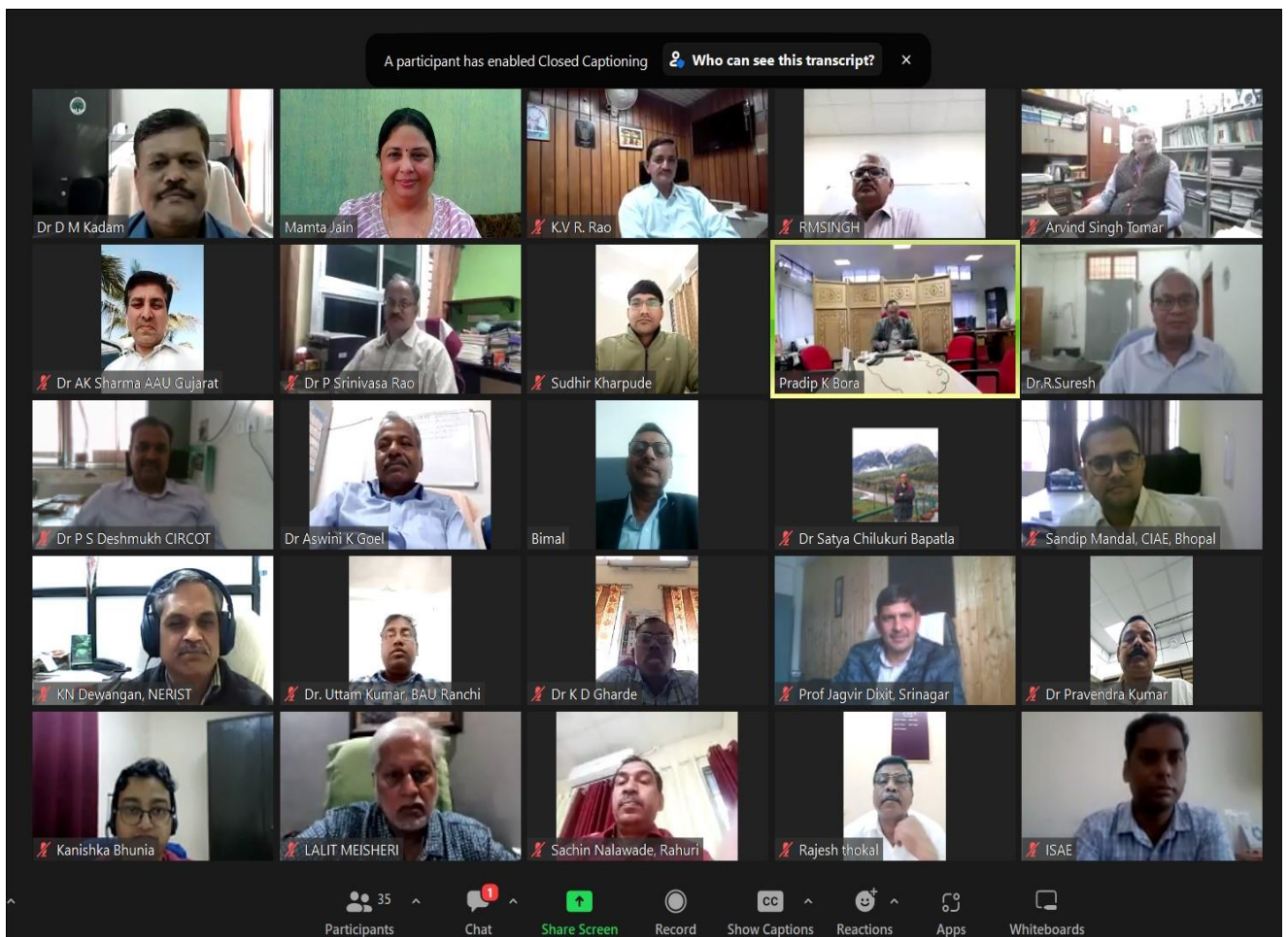
1. Dr. Udaya Kumar Nidoni, ISAE Raichur Chapter proposed the date and theme of the next ISAE convention and international symposium at UAS Raichur, Karnataka. It was decided that the 57<sup>th</sup> ISAE convention and international symposium will be held during 6-8, November 2023. The host institute need to prepare a flyer for wider publication of the convection and also send information to different institutes / centers / SAUs for encouraging their faculty members to participate and block these dated in advance. He was also advised to come in the next meeting with few proposed themes of the convention. He was also adviced to take app development by TNAU for ISAE convention last year.
2. The President advised to post activities of ISAE in official social media pages
3. The issue of online submission of research paper and status of submitted paper i.e. under review or already reviewed is to be sorted out. It was suggested that Dr. De, Chief Editor, JAE (India), Dr. Adlul Islam, Dr. Mahapatra and Mr. Sarthak, website developer may meet on a date of convenient to all and resolve the issue
4. ISAE may sign a MoU with Center for sustainable Agriculture mechanization, of United Nations, a review of MoUs with others need to be done.
5. The award guidelines and score card may be revised with inclusion of suggestions from chairperson of different award committee and new revised updated constitution, bye-laws and rules latest by 30<sup>th</sup> April for finalization in the next EC meeting.
6. The ISAE now want to expand its activities, in this direction it was decided to constitute two ISAE standard drafting / making committee for latest agricultural machinery and products. To start with two committees were formed for
  1. Drafting standard for agriculture drones
  2. Drafting finalization standard criterion for starring food products
7. A letter to be drafted for department of Agricultural Engineering in more IITs/NITs and a meeting time may be fixed with Hon'ble Education minister with the help of Dr. Vijay Virendra, Prof. IIT Delhi.
8. Focus for Membership drive in general and for CM and IM must be operative again
9. President lauded the efforts of Dr. Kadam for conducting chapters meeting. He was advised to keep all chapters in vibrancy mode and they should organize some kind of regional/national programs trainings etc. He was also advised to have some activity for women's members of the society with the help of Director (Gender issue). The best chapter award shall be given to the best performing chapters.

## ISAE Happenings

### Quarterly Meeting of ISAE chapters

A Quarterly Meeting of all ISAE chapters was held on 23rd March 2023 at 4.00 pm. All chapters chairmen's and secretaries attend online. The Agendas for this quarterly meeting was

1. Action taken on last meeting decision
2. Status of Bank account opening by each and every chapter and submission of account details to ISAE HQ
3. Transfer of Rs 5000 as seed money to chapters from ISAE HQ.
4. Transfer of portion of membership fee money to chapters.
5. Organisation of Monthly/ quarterly seminar/presentation/ workshop by chapters including Students Activities.
6. Discussion on Monthly webinar on technology developed by chapters, one chapter every month- Participation will be open to all.
7. Enrolling Student members, life members, corporate members and institute members.
8. Quality Research papers submission to JAE(I) and article to AET from each Chapters



## ISAE Happenings

### Bihar Agricultural Science Academy Initiated Meeting of Scientist and Professors

Bihar Agricultural Science academy was initiated convening a meeting of interested and like minded scientists and professors on 24 March 2024 in hybrid mode under chairmanship of President ISAE.

It is a beginning of a new academy. It has to go a long way.



### Meeting For Reducing The Cost of AET Printing Charge

For maximizing the reach of AET to agricultural engineering professionals and students, efforts were made to reduce the cost of AET. For the same a meeting was held to reduce the printing cost of AET and increase the number of printed issues to widen the base of subscribers and Magazine corners.

Ways and means to reduce postal expenditure of these magazines and journal were also discussed and action points decided. Meetings attend by Mr. Gupta official printers of ISAE, Er. Mamta Jain editor-in-chief AET treasurer, secretary General and Dr. S N Jha, President ISAE.



### Farewell Party Organized by ISAE Bhopal for Dr. Maharani Din

A farewell party was organized for Dr. Maharani Din, Project Coordinator, AICRP by ISAE Bhopal chapter as per the tradition of the chapter on 5<sup>th</sup> Feb, 2023. The gathering was attended by 55 colleagues of Bhopal chapter. He joined CIAE in 2014 after being selected as the PC of AICRP on UAE from NRRI, Cuttock. He has been also the Director of the institute for about 6 months. Dr. Din's old colleagues shared happy moments and new colleagues highlighted the good nature of Dr. Din. Director CIAE addressed the gathering and congratulated him and wished him happy post retirement life.





## ISAE Happenings

### Events/Activities Planned by ISAE for 2023

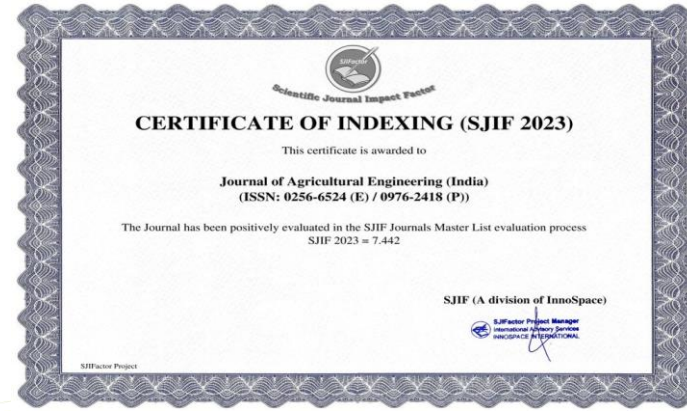
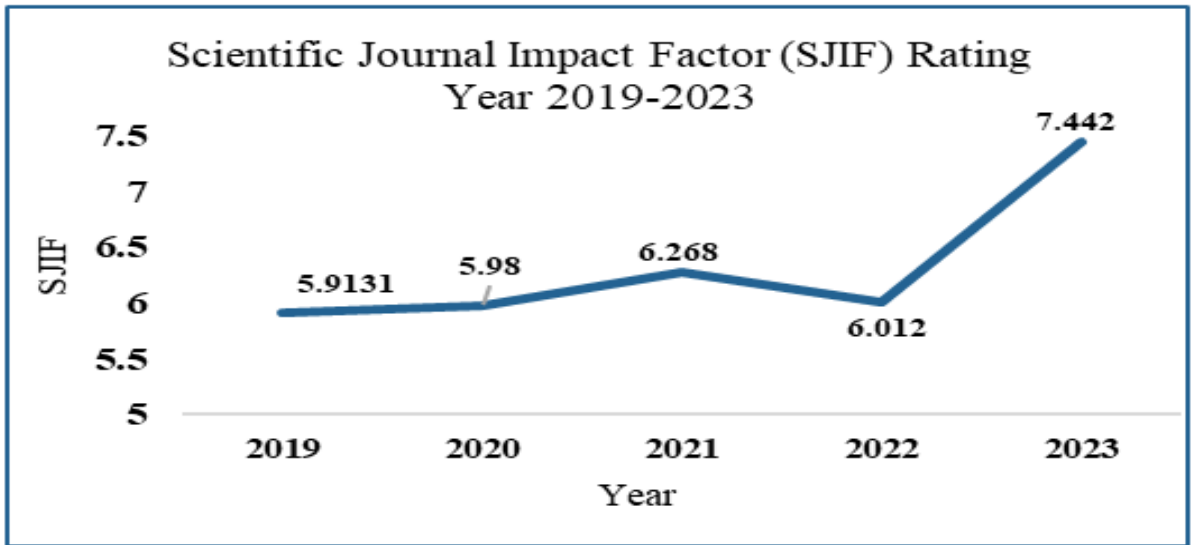
Technical Council of ISAE proposed for Event/ Activities calendar for year 2023 along with the months in which it is to be conducted and with details of conducting officer/ offices

#	Tentative Month	Event/activity	Fee*	Conducting officer/offices
1.	January	Lauchinnng Ceremoney of JAEI online portal	Free for all	Director IT
2.	February	National Science day celebration	Free for all	Chapters
3.	March	Celebration of World water day	Free for all	Director SWE
4.	April	Online paid training on 'Writing Winning Research Proposal'	Rs 500/ for ISAE members and Rs 5000/- for Non-ISAE member for each programme	Dr S.N. Jha and team
5.	May	Online paid training on Writing Research Papers with high chance of acceptability		
6.	May	Workshop on Farm Mechanization: Making Farming as Prosperity	Free for member, Rs. 500 for nonmember	<b>Director</b> FMPE and team
7.	June-July	Conceptathon for ISAE Calendar-2024	Free Mostly for students' team with teacher as team leader	Dr Ambrish Kumar and team
8.	June	Industry-Institute Expert Talk on Solar Drying Technology for value additions	Free for member, Rs. 500 for nonmember	<b>Director</b> EBE
9.	July	IoT based technology in irrigation and drainage management	Free for member, Rs. 500 for nonmember	<b>Director</b> SWE and team
10.	August	National conference on entrepreneurship in Postharvest processing and food technology	Free for member, Rs. 500 for nonmember	<b>Director</b> ASPE and team
11.	September	Drone technology in precision farming	Free for member, Rs. 500 for nonmember	<b>Director</b> SWE and team
12.	October	Industry-Institute Expert Talk on WATER-ENERGY-FOOD for NextGen Indian Agriculture	Free for member, Rs. 500 for nonmember	<b>Director</b> ASPE and team
13.	November	The 57 <sup>th</sup> ISAE Convention	As per registration fee set by the organizer	University of Agri sciences, Raichur
14.	December	Workshop on the use of sensors in farm machinery	Free for member, Rs. 500 for nonmember	<b>Director</b> FMPE and team

## ISAE Happenings

### Journal of Agricultural Engineering (India), at Increasing Trend in Impact Factor (2019-2023)

The Journal of Agricultural Engineering (India), is in consistence improvement of research paper quality and the Scientific Journal Impact Factor (SJIF) which was 5.931 in Year 2019 is increased to 7.442 in Year 2023.



## ISAE Happenings

### School Level Awareness Workshop on “Role of Agricultural Engineering in National Development” by ISAE, Odisha Chapter

An awareness workshop on “Role of Agricultural Engineering in National Development” was organised by ISAE, Odisha Chapter at Capital Girls’ High School, Unit-II, Bhubaneswar on 06.04.2023. The Headmistress introduced the students about the theme of the workshop. Many other teachers and sixty girls students of class-10 participated in the workshop. Hon’ble President of India, Smt. Droupadi Murmu is the proud alumnae of the school.

Dr. S.K. Dash, Dean, College of Agricultural Engineering and Technology, Bhubaneswar, Dr. A. K. Goel, Chairman, ISAE, Odisha chapter, Dr (Mrs.) K. Rayaguru, Director (Gender), ISAE and Dr. U. S. Pal, Secretary of the chapter attended the programme. Dr (Mrs.) K. Rayaguru briefed about Agricultural Engineering profession and the recent developments in the field contributing overall Agricultural development of the country through audio visuals.



Dr. A. K. Goel discussed with students on why and how to pursue career in Agricultural Engineering. Dr. S. K. Dash, Dean, College of Agricultural Engineering and Technology, Bhubaneswar interacted with the students about their career choices and what they learnt from the workshop about agricultural engineering.

### An Expert Talk Was Organized by ISAE Bhopal Chapter: “Precision Agriculture: The Next Gen Ag” and “Scientific Writing”

An expert talk was organized by ISAE Bhopal Chapter on 6<sup>th</sup> March on the topics: “Precision agriculture: The next gen Ag” and “Scientific Writing”. The speaker was Dr Abhilash Chandel, Assistant Professor, Virginia Agriculture and Research Centre, Virginia Tech University, USA. The lecture was organized in both offline and virtual mode.

Dr. Chandel presented in detail on latest trends in precision agriculture, sensor technologies and application of machine learning and drone technologies in agriculture in Indian as well as American contexts. In the second lecture on Scientific writing Dr. Chandel explained insights of scientific reporting along with the common mistakes committed by individuals while submitting research papers to different journals. There was an active interaction by participants with Dr. Chandel on various aspects of these lectures.



## ISAE Happenings

### Seminars Conducted in Coordination by Dr. T. Senthilkumar, Director (Farm Machinery and Power Engineering) ISAE During February and March 2023

The following three seminars were conducted in coordination by Dr. T. Senthilkumar, Director ( Farm Machinery and Power Engineering) ISAE during February and March 2023

1. Seminar on Farm Mechanization: Making Farming as Prosperity on 16.02.2023 , Guest speaker: Dr. T. Senthilkumar PS, ICAR - CIAE & Director FM, ISAE, program conducted by Dr. N.T.R. College of Agricultural Engineering Acharya N.G. Ranga Agricultural University, Bapatla. More than 200 students and staff members participated in the program.
2. Seminar on ISAE Connecting Point of Agricultural Engineering on 23.02.2023 , Guest speaker: Dr. T. Senthilkumar PS, ICAR - CIAE & Director FM, ISAE, program conducted by Kalaignarkaranidhi Institute of Technology, Coimbatore, Tamil Nadu. More than 200 students participated in the program.
3. Seminar on Role of Farm Mechanization in sustainable agriculture during 18.03.2023 , Guest speaker: Dr. T. Senthilkumar PS, ICAR - CIAE & Director FM, ISAE, program conducted by Kongunadu College of Engineering and Technology, Namakkal-Trichy. More than 100 students participated in the program



## ISAE Happenings

### Date and Venue of 57<sup>th</sup> ISAE Convention & International Symposium

ISAE executive council has finalised the date and venue of upcoming 57<sup>th</sup> ISAE convention and international Symposium as 6<sup>th</sup> -8<sup>th</sup> November 2023 and the venue is decided as UAS Raichur Karnataka



The banner features the ISAE logo (a gear with a wheat stalk) on the left, the G20 India 2023 logo (a globe with 'G20' and 'भारत 2023 INDIA') in the center, and the International Year of Millets 2023 logo (a stylized millet plant) on the right. Below these logos, a red and green double arrow points to a cyan box with the word 'UPCOMING' in red. A dark blue rounded rectangle contains the text '57<sup>th</sup> ISAE Convention & International Symposium' in white. Below this, a purple diamond contains '6-8<sup>th</sup>' and a purple rounded rectangle contains 'NOVEMBER 2023'. A yellow rounded rectangle at the bottom contains the text 'Venue: UAS, Raichur, Karnataka'. At the bottom of the banner is a photograph of the University of Agricultural Sciences, Raichur Administrative Block, with two banners overlaid: a red one saying 'Please mark the dates in Your Calendar' and a yellow one saying 'Brochure coming soon..'

## 12<sup>th</sup> Meeting of Agricultural Chief Scientists of G20 countries

Dr SN Jha, President ISAE, Organized 12th Meeting of Agricultural Chief Scientists of G20 countries along with invited countries and International organizations during 17-19 April at Hotel Taj Ganges in Varanasi as ICAR a chief of MACS G20 for 2023.

“As a Chairman Venue Management Committee, the task for organizing such bigger international official meetings was little difficult, continuous and started in three days advance” – said Dr Jha.

The committee members did very hard work and all three venues Hotel Taj Ganges, Sarnath, Gulab bag.

Meeting ended with excellent outcome under the leadership of Dr. Pathak DG ICAR and secretary DARE. The program was so well managed and efficient that almost all sessions and events were completing before or just at time.

In side lines of G20 MACS an Indo-German bilateral meet to address food loss and waste was also held.



During this 12<sup>th</sup> Meeting of Agricultural Chief Scientists of G20 countries, Makhana (Fox Nut) the healthy Indian snack was kept on the table of each delegates, labeled with its nutritive properties.

Makhana is tagged with geographical indicator as Mithila Makhana.

## World Water Day 2023

Everyone knows that 'Water is the elixir of life'. From drinking to cleaning and other things, life cannot sustain without it. While many people are privileged to have running water 24x7, there is a huge population around the globe that does not have access to any amount of water. According to UN, at present, one in four people (two billion people worldwide) – lack safe drinking water. Around 1.4 million people die annually and 74 million will have their lives shortened by diseases related to poor water, sanitation and hygiene. As per the estimates by OECD, global water demand (in water withdrawals) would increase by 55% by 2050.

To highlight the importance of water and raise awareness about the global water crisis, is being observed on March 22 every year. According to the United Nations website, the idea behind celebrating the day is to “support the achievement of sustainable development goal (SDG) : water and sanitation for all by 2030”. The main objective of the day is to aware and inspire people to sustainably manage the freshwater resources and learn more about water-related issues like water pollution, water scarcity, inadequate water, and lack of sanitation, and take appropriate steps to make a difference.

The resolution to observe World Water Day was first adopted by the UN General Assembly on December 22, 1992, after which March 22 was declared as World Water Day and is celebrated around the world since then. The first World Water Day was observed in the year 1993.

The theme for World Water Day 2023 is 'Accelerating the change to solve the water and sanitation crisis', emphasizing the necessity of taking stern action to address the global water crisis. The UN said, "Billions of people and countless schools, businesses, healthcare centres, farms and factories don't have the safe water and toilets they need. There is an urgent need to accelerate change – to go beyond business as usual".

### World Water Day, ISAE Varanasi Chapter

On 22 March 2023 World Water Day was celebrated in the Institute of Agricultural Sciences, Banaras Hindu University, Varanasi on the theme of accelerating change to solve the water and sanitation crisis. Describing the current status of water availability to the students, Head, Department of Agricultural Engineering, Professor VK Chandola said that conservation of soil and water will give new dimensions to society and agriculture. Professor Yashwant Singh, Director of the institute, told that recharging groundwater is absolutely necessary to meet the water requirement of future generation. It is possible only with the combined efforts of all the people. In our Vedas emphasis is given for proper management land and water. Professor Ram Mandir Singh, Chairman, ISAE Varanasi Chapter expressed his gratitude to the Director, Head of the Department, all the teachers and students for their participation in the program. The program was convened by Dr. V.K. Tripathi, Joint secretary cum treasurer.



## World Water Day 2023

### World Water Day at Gangtok

College of Agricultural Engineering and Post Harvest Technology (CAEPHT), Indian Society of Agricultural Engineers (ISAE) in association with Glenmark Pharma Limited, Ranipool, Gangtok observed World Water Day on 22<sup>nd</sup> March, 2023. The program was planned so that awareness can be taken to school level. On 17<sup>th</sup> Of March, 2023 two competition viz., Drawing Competition and Essay writing competition was organized for school children and college students. The theme of the competition was “Accelerating Changes for solving Water and Sanitation Crisis”. Around 60 students from 12 schools participated in the program. The main program was organized on 22<sup>nd</sup> March, 2023 at CAEPHT. The program was attended by the faculty, staff students of CAEPHT along with teachers and students of around 12 schools and officials of Glenmark Pharma Limited, Ranipool. Gangtok. In the program Prof J Panda, i/c Dean addressed the gathering of faculty members and students regarding the significance of water and role of Agricultural Engineering as a profession in its conservation and management. After the address awards given away to the winner of the drawing and essay competition organized on 17<sup>th</sup> March, 2023.



School Children participating in Essay competition



School Children participating in drawing competition



Group photo with award winners



## World Water Day 2023

### World Water Day, WTC ICAR-IARI

On the occasion of WORLD WATER DAY on 22<sup>nd</sup> March, 2023, Water Technology Centre (WTC), ICAR-Indian Agricultural Research Institute (IARI) New Delhi has organized a brainstorming programme on “Accelerating the change to solve the water and sanitation crisis” in the Chairmanship of Dr. Alok K. Sikka, Country Representative-India of International Water Management Institute. Professor Ramesh Chand, Hon’ble Member, NITI Aayog, Government of India and renowned Agricultural Economist of our country graced this occasion as Chief Guest. He highlighted the importance of efficient water conservation and management, to solve the problems particularly, the drying of ponds, wells, and other water bodies. He emphasized that the subsidy/incentives should be provided to efficient utilizers of water and to create awareness among others. He emphasized to develop most modern and advanced water management technologies, to solve the daunting problems faced by agriculture sector. He further stressed on role of scientific and prudent water management to enhance the water productivity and to reduce the carbon foot print and the need to reassess the water resource scenario of our country. He also suggested to evaluate the ground water scenarios after the implementation of Atal Bhu-Jal Yojana to have a realistic and scientific assessment of the ground water resources for their efficient planning.

Prior to this, Dr. C. Viswanathan, Jt. Director (Research) ICAR IARI New Delhi, has welcomed the Chief Guest and delegates. He shared his thoughts on optimum water use in agriculture by the farming community through modern methods of irrigation such as drip and sprinkler at large scale. Dr. P.S. Brahmanand, the Project Director, WTC, IARI while setting the context for the World Water Day, delivered presentation on current status of water resources and their utilization in agriculture - key issues. He gave an overview of the water resources scenario of India and highlighted the judicious use of surface and groundwater resources and phase wise crop diversification keeping low water requirement in mind. Shri Franklin L. Khobung, Joint Secretary (NRM/RFS), MoA & FW, Govt. of India has graced this occasion as Guest of Honour and he emphasized on importance of Government schemes such as Jal Shakti Abhiyan in water conservation.

Later, a brief interaction on water management issues was held followed by Chairman remarks by Dr. A. K. Sikka. He mentioned that water connects different sectors including agriculture and we need to manage water resources as a whole and highlighted the joint efforts of International Water Management Institute and ICAR in successful management of drought and flood. The Meeting ended with vote of thanks by Dr. Man Singh, Professor WTC. Later the dignitaries and participants visited “Pusa Amrit Sarovar” at ICARIARI. About 130 participants including Heads of various divisions, Scientists, Professors and students of ICAR-IARI attended this even



Source : <https://www.iari.res.in/bms/latest-news/news-archive.php>

## World Water Day 2023

### World Water Day, ICAR-IIWM, Bhubaneswar

ICAR-Indian Institute of Water Management, Bhubaneswar observed “World Water Day 2023” today on the theme “*Accelerating Change to solve the Water and Sanitation Crisis*” in collaboration with International Water Management Institute (IWMI).



The Chief Guest, Dr. A.K. Sikka, IWMI Representative-India & Principal Researcher, International Water Management Institute, New Delhi emphasized the sustainable use and management of water resources, enhancing water use efficiency and water productivity, various challenges encountered by our food systems, and the dire need for regional, national and global dialogues to address the water and sanitation issues to save our motherland. He also released a short video documentary on ‘*Glimpses of ICAR-IIWM*’.



Prof. Sudhindra Nath Panda, Vice Chancellor, CV Raman Global University, Bhubaneswar was the Guest of Honour, and Prof. Shekhar Muddu, Professor, Dept. of Civil Engineering, Indian Institute of Science, Bangalore was the Guest Speaker (*virtually*). Special talks were delivered by eminent start-ups like Dr. Rajul Maheshwari, CEO, SoilSens Company Ltd, Mumbai (*virtually*), and Mr. Dil Bahadur, State Head (Odisha), Jain Irrigation Systems Ltd, Bhubaneswar, besides experience-sharing by Shri Radhashyam Biswal, IIWM-mentored IARI-Innovative Farmer Award winner 2023 from Kanas, Puri, Odisha.

At the outset, Dr. Arjamadutta Sarangi, Director, ICAR-IIWM in his welcome address briefed about the importance of the Day, The program was attended by over a hundred participants including scientists and staff of the institute, invited farmers, students, scholars, and media personnel.

Source: <https://icar.org.in/content/>

## World Earth Day 2023

In 1970, to increase public awareness of environmental issues, a Wisconsin-based US senator initiated the inaugural Earth Day celebration. All living things from microscopic organisms to humans to enormous whales dwell on this lovely planet Earth, which offers them all the necessities for a wonderful and healthy life, including shelter, food, air, and other basic necessities.

Earth is frequently referred to as mother earth since it nurtures us as our Mother does. Dismayingly, though, we have started to hurt her as a result of our greed. Her failing health requires proper attention and care. To safeguard the planet from problems like pollution and deforestation, people celebrate Earth Day on April 22. Our planet becomes a healthier and better place to live as we continue to plant more trees.



The first Earth Day event was started in 1970 by a United States senator from Wisconsin to increase public awareness of environmental issues. All around the United States, rallies were held. By year's end, the US federal government had founded the Environmental Protection Agency. By 1990, Earth Day had drawn participants from over 140 different countries. Later, with the participation of around 192 countries, this initiative gained momentum and over one billion people every year observe this day with great enthusiasm.

Earth Day is celebrated each year, under a different theme focusing on various issues our planet is facing. As per the official website earthday.org, the global organizer of the event, Earth Day 2023 theme is 'Invest in Our Planet'. It has been decided to draw the attention of institutions, governments, businesses, and over one billion people toward the better health of our planet. The organization believes that maintaining the health of the planet is the responsibility of every individual.



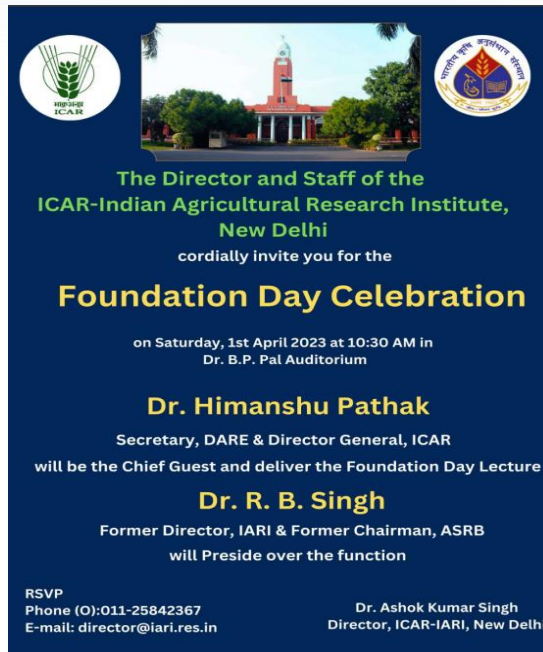
Source :

<https://krishijagran.com/blog/world-earth-day-2023-why-and-how-is-it-celebrated-on-april-22/>

<https://www.hindustantimes.com/india-news/earth-day-2023-theme-invest-in-our-planet-significance-101682129273687.html>

## ICAR-IARI, Foundation Day Celebration

ICAR-Indian Agricultural Research Institute (IARI), New Delhi celebrated its Foundation Day on 1st April 2023 in BP Pal auditorium in the august presence of scientists, staff, students and farmers from different clusters associated with SCSP program. Dr Himanshu Pathak, Secretary DARE and Director General, ICAR and speaker of the session graced the occasion as the Chief Guest of the function. Dr HS Gupta, Former Director, IARI and Dr RB Singh, Former Director, IARI and Former Chairman ASRB were also present as the Guest of Honour and Chairman of the session, respectively. At the outset Dr AK Singh, Director, IARI welcomed all the dignitaries on and off the dais along with staff, students and farmers who joined the program through offline and online mode.



The Director and Staff of the  
ICAR-Indian Agricultural Research Institute,  
New Delhi  
cordially invite you for the

### Foundation Day Celebration

on Saturday, 1st April 2023 at 10:30 AM in  
Dr. B.P. Pal Auditorium

**Dr. Himanshu Pathak**  
Secretary, DARE & Director General, ICAR  
will be the Chief Guest and deliver the Foundation Day Lecture

**Dr. R. B. Singh**  
Former Director, IARI & Former Chairman, ASRB  
will Preside over the function

RSVP  
Phone (O):011-25842367  
E-mail: director@iari.res.in

Dr. Ashok Kumar Singh  
Director, ICAR-IARI, New Delhi

On the occasion, Dr AK Singh informed about the different programme organized by the Institute to celebrate the Foundation Day of the Institute. He also briefed about significant research activities of the Institute in the year 2022-23 carried out by the Institute for the benefit of different stakeholders. A short film was then played to give a glimpse of efforts, achievements and various activities of the Institute held for the staff, students and stakeholders at different occasions during the year. After it, the farmers from the clusters of SCSP program shared their views and experience regarding different activities being held at village level after being associated with the Institute under the leadership of the Director, Dr AK Singh. Then the Guest of Honour Dr HS Gupta, Former Director IARI shared his experiences during his association with the Institute, He highlighted the challenges being faced by Indian agriculture in the present scenario.

It was followed by the formal introduction of the Chief Guest and speaker of the session Dr Himanshu Pathak, Secretary DARE and Director General, ICAR by Dr RB Singh, Former Director, IARI and Chairman of the session. Dr Himanshu Pathak delivered the Foundation Day Lecture on "Indian Agriculture in the Amrit Kaal- Initiatives of ICAR". In his address, he pointed out the challenges faced by Indian agriculture as decreasing water availability, degrading soil, increasing pests and diseases, climate change and changing aspirations. He highlighted the projections and targets to be achieved in future in the field of agriculture. He mentioned about the initiatives for resilient, secondary and digital agriculture in the field of modern agriculture along with its integration with traditional knowledge to achieve maximum benefits. He said that to address the multiple and frequent challenges in agriculture ICAR has taken many initiatives. It included certifying production and protection of technologies, rightsizing ICAR and improving governance, revitalizing ASRB, collaboration with industry and global organization amongst many. He finished his lecture with the vision to develop new roadmap for development which will be climate friendly and in which developing countries will play crucial role with the approach of low carbon, nitrogen, water and energy and integration of rural and urban youth equipped with new skills.

# ICAR-IARI, Foundation Day Celebration

After the lecture, dignitaries on the dais released publication developed by the Genetics, Agricultural Chemicals, Soil Science and Agricultural Chemistry and Microbiology divisions of the Institute. It was followed by felicitation the students of different schools who won prizes in different competitions held from 27 to 29 March 2023 in lieu of Foundation Day Celebration of the Institute. Then PG students were also felicitated by the Chief Guest for winning the competitions organized for them. On this occasion, the technical, administrative staff and supporting were also felicitated by the dignitaries for their contributions towards the growth of the Institute. After prize distribution, the guests of the function on the dais were felicitated by Director, IARI with the mementos. The program ended with the formal vote of thanks by Dr RN Padaria, Joint Director (Extension), ICAR-IARI, New Delhi to all for the successful organization of the function.



# Directorate of Agricultural Engineering Announced in Chattisgarh

दैनिक भास्कर रायपुर 23-04-2023

## नई पहल • मुख्यमंत्री ने मिट्टी, पानी तथा पर्यावरण की रक्षा का सभी को दिलवाया संकल्प राज्य में कृषि अभियांत्रिकी का अलग से बनेगा संचालनालय, सर्टिफाइड इंडिरा ब्रांड बीज लांच

मुख्यमंत्री ने मिट्टी, पानी तथा पर्यावरण की रक्षा का सभी को दिलवाया संकल्प राज्य में कृषि अभियांत्रिकी का अलग से बनेगा संचालनालय, सर्टिफाइड इंडिरा ब्रांड बीज लांच



किसानों को बीज कृषि संज दिए गए

मुख्यमंत्री ने किसानों को बीज कृषि संज दिए गए... मुख्यमंत्री ने किसानों को बीज कृषि संज दिए गए... मुख्यमंत्री ने किसानों को बीज कृषि संज दिए गए...

परंपरा पुनर्जीवित हुई है... मुख्यमंत्री ने किसानों को बीज कृषि संज दिए गए... मुख्यमंत्री ने किसानों को बीज कृषि संज दिए गए...

The new Directorate of Agricultural Engineering is announced in State of Chattisgarh by Hon'ble CM Shri. Bhupesh Baghel. Currently state of Tamilnadu and Madhyapradesh have Directorate of Agricultural Engineering, whereas Chattisgarh is going to be third in the row. The new Directorate of Agricultural Engineering will be helpful to increase use of Agricultural Machineries, drone, modern machineries and modern agriculture practices in the farm. The avenue for new recruitments of Agricultural Engineers can be foreseen in the state. The agitation for the same has been there in State of Karnataka and Maharashtra. Other state can also find way out to establish new Directorate of Agricultural Engineers.

## Pusa Krishi Vigyan Mela 2023

Pusa Krishi Vigyan Mela (PKVM) 2023 of ICAR-IARI, New Delhi was organized during March 2-4, 2023. The theme of the mela was kept as “Nutritional, Food and Environmental Security through Millets”, as the United Nations’ General Assembly has declared 2023 as the ‘International Year of Millets’ with India’s consistent pursuance to make millets a global food. The millets have been an integral part of Indian agriculture, food systems, culture and civilization since ancient times. Millets hold immense potential to ensure nutritional security and to make the food systems climate resilient.

The Hon’ble Union Minister of Agriculture and Farmers Welfare, Shri Narendra Singh Tomar was the the Chief Guest of the inaugural function. Sh. Kailash Chaudhary Ji and Sushree Shobha Karandlaje Ji, Hon’ble Ministers of State for Agriculture and Farmers Welfare will be the Guests of Honour during the event.

IARI Director Dr. A.K. Singh said that the main attractions of the fair this year are technical sessions on important and contemporary issues in agriculture, development of Shree Anna based value chain under International Shree Anna Varsh, smart farming/protected farming model, climate friendly and sustainable agriculture. , Agricultural Marketing and Exports, Farmers' Innovations – Potential and Problems, Farmer Producer Organizations (FPOs) – Startup linkages.

Thematic exhibitions of key technologies were organized, through stalls of research institutes, startups and entrepreneurs. Shree Anna based stall to educate about different types of Shree Anna, their cultivation practices, value addition and nutritional value were also installed. Indian Institute of Millets Research, Hyderabad as well as VPKAS Almora, Kajri, Jodhpur and S.K.N. Agricultural University, Jobner, which are involved in research on Sri Anna, also participate in the fair. Agri-startups, especially Shree Anna based startups were set up and motivate the youth to start startups as a source of livelihood.



## Prime Minister Inaugurated the Global Millets (Shri Anna) Conference

### Address by Union Agriculture and Farmers Welfare Minister Shri Narendra Singh Tomar at the Global Millets (Shri Anna) Conference



It is a celebration of the beginning of the year of Millets (Shri Anna). Whenever any question arose regarding the subject of Millets, the eminent Prime Minister of India Shri Narendra Modi ji enthusiastically guided all of us and as a result this program is reaching greater heights. Today people from all over the world are participating in this program. The presence of the Prime Minister in this program also enthuses all of us. I heartily welcome and congratulate the Prime Minister on behalf of everyone.

It has been the belief of the Prime Minister that no matter how much we increase the health facilities, but if the diseases increase, then the facilities will not be sufficient. It is their endeavor to minimize diseases, for this work has been done to establish wellness centers at different places in the country. The whole world accepted the Prime Minister's request and adopted Yoga, it is a matter of pride for us.

Similarly, the Prime Minister has been constantly worrying about the need to increase the power of small farmers and rain-fed farmers of the country and the world. People have abundance of food grains, but efforts should be made to fill the lack of nutrients in the food plate. For this, millets were notified as nutri-cereals in the year 2018, so that coarse grains get prestige in the food plate, increase the strength of the small farmer, and encourage its cultivation. Due to this, the production of coarse grains has increased and the demand has also increased.

## Prime Minister inaugurated the Global Millets (Shri Anna) Conference

### Address by Union Agriculture and Farmers Welfare Minister Shri Narendra Singh Tomar at the Global Millets (Shri Anna) Conference

Describing the importance of Millets in the year 2018 itself, the Prime Minister put this proposal in the United Nations and the United Nations declared 2023 as Millets Year. Its launch is happening today. I congratulate the Prime Minister for the prestige he has given to Millets, coarse grains by calling them Shri Anna. Shree Anna is an important agricultural product for the whole world. Cultivation of nutrient-rich millets can be done in normal land. Fertilizer is not required in this. The plant of Millets contributes in increasing the fertility of the land. Along with this, its cultivation also protects the environment.

The lack of nutrients in the plate can be fulfilled by the use of millets based production. 2023 is the International Millets Year. In preparation for this, under the guidance of the Prime Minister, the entire government, along with the state governments, along with the industry, importer-exporter, schools-colleges all together have encouraged it. Today, wherever there is talk, the topic of millets definitely comes up. In this budget too, a provision has been made to promote the cultivation of millets. Today, this day and Millets Year 2023 will always be witnessed in history, so the Prime Minister will also release a postage stamp and a coin today, so that the coming generations remember that 2023 was celebrated as Millets Year.





## Seed Travelability Portal And Mobile Application Launched by Union Agriculture Minister

### “SATHI Portal Will Prove To Be Revolutionary In The Agriculture Sector” - Shri Tomar

New Delhi, April 19, 2023, Union Agriculture and Farmers Welfare Minister Shri Narendra Singh Tomar today launched SATHI (Seed Traceability, Authentication and Holistic) portal and mobile application designed to meet the challenges of seed production, quality seed identification and seed certification. It has been developed by NIC in collaboration with the Union Ministry of Agriculture and Farmers Welfare on the theme of Uttam Beej – Samridhi Kisan .

On this occasion, Shri Tomar said that the Government of India is constantly trying to overcome the challenges and difficulties faced by agriculture through various schemes and programmes. SATHI portal is also an important step in this direction. When its use starts till the bottom, it will prove to be a revolutionary step in the field of agriculture. Chief guest Union Minister Shri Tomar said that agriculture is of great importance for India. This importance has increased in the changing scenario. Earlier, we had only the aim of fulfilling our needs in agriculture, but at present the expectations of the world are also increasing from India. In such a situation, it is our responsibility to help the world while dealing with all the challenges of agriculture, climate change etc. Shri Tomar said that seeds, pesticides, fertilizers and irrigation play a major role in agriculture. Quality or spurious seed affects the growth of agriculture. This causes loss to the farmers, it also makes a big difference in the agricultural production of the country. It has been said from time to time that we should make such a system, so that the market of spurious seeds collapses and quality seeds reach the farmers, for this the SATHI portal has been launched today.

Union Minister Shri Tomar said that the first phase of SATHI (Seed Traceability, Authentication and Holistic) portal has just come. He told the officials that the second phase should not take much time. Efforts should be made to increase awareness so that the farmers get full benefit from it. There will be a QR code under this system, through which the seeds can be traced.

SATHI portal will ensure quality assurance system, identify the source of seed in the seed production chain. The system will consist of integrated 7 verticals of the seed chain - Research Organization, Seed Certification, Seed Licensing, Seed Catalogue, Dealer to Farmer Sales, Farmer Registration and Seed DBT. Seeds with valid certification can only be sold by valid licensed dealers to centrally registered farmers who can receive subsidy through DBT directly into their pre-validated bank accounts



## Backpack For Load Carrying in Sherpa Mode Developed by AICRP on ESA, NERIST Centre



North-eastern region of India accounts for approximately 8% of the total geographical area and 3.1% of the population as per the census of Government of India on 2011. Hilly area of north-eastern region is characterized by steep terrain, wide variations in slope, altitudes, and indigenous cultivation practices. These difficulties force the worker to carry goods or agricultural produce manually. The size and shape of the basket used for carrying the goods vary with ethnic group. It is

observed that mostly woman agricultural workers carry the load in *sherpa* mode in hilly area.

Load carrying therefore demands heavy physical work which causes neck and back pain and injury to the workers. In addition to physical workload, the environment also has a significant impact on workers' efficiency in field condition. An adjustable basket holder with head strap was designed to gripe different sizes of basket based on diameter and length.



Due to varying shape and size of basket, the basket holder was provided with an adjustable strap (buckle) at the shoulder, the top circumference of the holder, holder's vertical length and at the waist. The basket holder was made of polyester fabric and polyethylene (EPE) foam as cushion material. The cushion reduces peak pressure in the torso and thus discomfort to the workers.

The developed backpack is made of canvas clothe and weighs only 375 g and has 50 cm length and 30 cm breadth.. It facilitates increased load carrying capacity and offers comfort to the worker. Cost of the backpack is Rs 450/-. There is no maintenance and repair.



A total of 53 front line demonstration (FLD) programmes were organised for backpack for load carrying in sherpa mode in which 2028 progressive farmers participated from 98 villages of Arunachal Pradesh. The backpacks are being distributed in KVKs/ Govt departments, shops which are selling agricultural tools and machinery in Arunachal Pradesh. The Local News agencies are also contributing to popularize the developed Backpack

The ISAE congratulates scientific team leader Dr. K. N. Dewangan and his team members Dr. T. Patel, Mr. B.S.K. Chhetry and Ms. Sarju Thockchom and the AICRP on ESA, NERIST Center and Department of Agricultural Engineering, North Eastern Regional Institute of Science and Technology, Nirjuli, Itanagar, Arunachal Pradesh. Dr. K. N. Agarwal, PC, AICRP on ESA supported the team during entire work period.

Source: Information by Dr. K. N. Dewangan, [kndewangan2001@yahoo.co.in](mailto:kndewangan2001@yahoo.co.in)

### THE DAWNLIT POST

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#### 'Sherpa Mode' to help farmers

ITANAGAR, Dec 27: The North East Regional Institute of Science & Technology (NERIST) is hoping farmers will put to use the 'Sherpa mode' of carrying load on their heads with the use of body ladders. On Friday, the institute's department of agricultural engineering organised a demonstration of the ergonomically developed ladder and backpack for load carrying in Sherpa mode' at Chalyu Village in Lower Subansiri district's Yazali circle. 25 people participated in the demonstration which was sponsored by Indian Council of Agricultural Research (ICAR) through AICRP on ESA, NERIST centre in Nirjuli. The demonstration was conducted at the orange farm of a progressive farmer, Bengia Tassam. Agriculture field assistant, Taw Techi, urged the farmers to adopt the improved ladder for effective harvesting of organic oranges that are grown in the village. The farmers appreciated the women-friendly ladder as it increases the plucking rate and reduces the fruit damage as it has continuous unloading system attached at the top of a ladder. They also appreciated the developed backpack for load-carrying as they can carry more oranges from the field to the market.

## New ICAR-CIAE Tractor operated drum type pneumatic planter : One More Proud Feather in Cap of CIAE, Bhopal

CIAE, Bhopal has its time-proved credentials for development of different popular technologies in service of Agriculture Engineering. The Scientists of CIAE, Bhopal, Dr. B. M. Nanded and Dr. Dilip Jat developed “ICAR-CIAE Tractor operated drum type pneumatic planter” . This technology is now available on GeM portal also. A technology developed by a team of scientists of the Agricultural Mechanization Division was licensed to M/S Dharti Agro Engineering, Rajkot Gujrat. It was launched in the expo at Gujrat. The event as published on ICAR website also.

It is a low cost tractor operated drum type pneumatic planter suitable for precision planting of crops such as cotton, maize, groundnut, grams, pigeon pea, soybean etc. It is available with 5-row for mini-tractor and 4 row cotton and 9-row multi-crop for big tractor models. The manufacturer is expected to sale it at the unit cost of 1.5-2 lakh which is 1/3 of the parallel technology available in the market. Manufacturer thanked Dr. CR Mehta, Director CIAE, Dr. BM Nandede and team for providing the platform to manufacturer the technology.

The technology has been filed for Indian Patent vide Application No. 202121017713 on 16<sup>th</sup> April, 2021.

Dr. P. S. Tiwari, former Head of AMD, CIAE, Bhopal and Dr. CR Mehta, Director CIAE, Bhopal, Dr. KK Singh, Formar Director CIAE, Dr. K N Agrawal, Acting Head, AMD and Dr. K P Singh, ADH (FE) ICAR supported the team all ways possible.

The ISAE congratulates Dr. Nandede and his team and wishes all success for future endeavors.



**ICAR CIAE Tractor drawn 9- row drum type pneumatic planter**

- Important features of Tractor Driven Drum Type Pneumatic Planter
  - Light in weight, so that it can be easily carried to the field.
  - It can be used for planting various type of crops (seeds) like cotton, Groundnut, Pigeon pea, Soybean, Green gram, Black gram, Maize etc.
  - Multi seeds (hill dropping) can be planted at specific distance.
  - Even small and marginal farmers can afford this due to the huge price difference about 1/3<sup>rd</sup> compared to other Pneumatic planters available in the market.
  - This planter is suitable for 35 HP and more HP tractors.

	Metering mechanism for seed	drum type
	Metering mechanism for vertical plate type fertilizer	vertical plate type
	Overall dimensions, m, (L x W x H)	2.82x 1.32 x1.47
	Overall weight, kg	520
	Field capacity, ha/h	0.3-0.7
	Field efficiency, %	84-86%
Cost of operation, Rs/ha	1000-1200/ha	
Cost of machine, Rs	175000/-	

Controller General of Patents, Designs & Trade Marks  
S.M. Road, Antop Hill, Mumbai-400037  
Tel No. (091)(022) 241377018, 24141026 Fax No. 022 24130387  
E-mail: mumbai-patent@nic.in  
Web Site: www.ipindia.gov.in



Docket No S7409

Date/Time 12/10/2021

To  
Anand And Anand

User Id: vidisha123

B-41 Nizamuddin East

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202121017713	E-137/451/2021/MUM	0		FORM 30/S7(2)/ R10	EntryNumber:13
2	202121012246	E-187/213/2021/MUM	0		FORM 30/Petition u/r 6(6)	EntryNumber:13
3	202121012109	E-187/214/2021/MUM	0		FORM 30/Petition u/r 6(6)	EntryNumber:13

Total Amount : ₹ 0  
Amount in Words: Rupees Only

Link for access to GeM portal:

[https://mkp.gem.gov.in/pneumatic-planter/pneumatic-planter/p-5116877-31642647814-cat.html#variant\\_id=5116877-31642647814](https://mkp.gem.gov.in/pneumatic-planter/pneumatic-planter/p-5116877-31642647814-cat.html#variant_id=5116877-31642647814)

Source: Information by Dr. B. M. Nandede

## New Launch : ISAE AET in Hindi now



A new initiative of ISAE AET is newly launched in its Hindi Version for lakhs of farmers and young school dropout entrepreneurs. Dr. Mamta Jain is working as Chief Editor and Editorial Board includes Dr. T. R. Kesvan, Dr. Vimal Kumar, Dr. S. Mangraj, Dr. J. K. Sahu, Dr. R. K. Srivastav and Dr. P. R. Jayan. Shri. Rakesh Kumar of CIAE, Bhopal is carrying the responsibility of Hindi Translation required for this journal. ISAE congratulate all team for this unique beginning.

## New Appointments



Dr. K. P. Singh joined as Assistant Director General (Farm Engg.) at ICAR, New Delhi.



Dr. N. G. Patil joined as Director, NBSSLUP, Nagpur.

The ISAE family congratulate you Sir on your great achievement.

## Superannuation



Dr. Man Singh got retired from his graceful service to WTC, IARI, New Delhi.

The ISAE family wishes happy retirement life for you Sir.

## New Members

### Life Members

Sl. No.	Membership No.	Name
1.	LM-12599	Er. Ranjana Deka
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5.	LM-12603	Er. Anandu Chandra Khanashyam
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1.	IM-	Director, ICAR-National Institute Secondary Agriculture, Namkum, Ranchi, Jharkhand
2.	IM-	Director, NIT, Calicut, Kerala

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7.	<u>Chandra Shekhar</u>	Secretary-II	secretary2@isae.in agm.engg@indiaseeds.com	
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4	ISAE Arunachal, Itanagar, Arunachal Pradesh	16	ISAE Kharagpur Chapter West Bengal	28	ISAE Coimbatore Chapter Tamil Nadu
5	ISAE Bihar Chapter Samastipur, Bihar	17	ISAE Kolkata Chapter West Bengal	29	ISAE Thanjavur Chapter Tamil Nadu
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7	ISAE Delhi Chapter Delhi	19	ISAE Jabalpur Chapter Madhya Pradesh	31	ISAE Narendra Nagar Chapter, Ambedkar Nagar, Uttar Pradesh
8	ISAE Sikkim Chapter Ranipool, Gangtok, Sikkim	20	ISAE Bhopal Chapter Madhya Pradesh	32	ISAE Lucknow Chapter Uttar Pradesh
9	ISAE Junagadh Chapter Junagadh, Gujarat	21	ISAE Rahuri Chapter Maharashtra	33	ISAE Varanasi Chapter Uttar Pradesh
10	ISAE Anand Chapter Anand, Gujarat	22	ISAE Akola Chapter Maharashtra	34	ISAE Pantnagar Chapter Uttarakhand
11	ISAE Jharkhand Chapter Ranchi, Jharkhand	23	ISAE Dapoli Chapter Maharashtra	35	ISAE Mumbai Chapter Maharashtra
12	ISAE Haryana Chapter Hisar Haryana	24	ISAE Parbhani Chapter Maharashtra	36	ISAE Bengaluru Chapter, Karnataka

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