



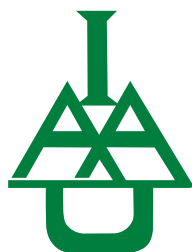
2023-24 ANNUAL REPORT

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

IAUA

ANNUAL REPORT

(2023-2024)



INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

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PREFACE

The Agricultural Universities through their research, education and extension programmes are committed to transform Indian agriculture from food self-sufficiency to enhanced profitability.

The Indian Agricultural Universities Association (IAUA) member agricultural universities (State Agricultural Universities, Central Agricultural Universities, Deemed-to-be Universities) are dedicatedly involved in newer exemplars in agricultural and allied enterprises with the objective to develop technologies and generate globally competent accomplished human resources to serve the farming community at national and international levels.

The Agricultural Universities (Agricultural, Horticultural, Dairy, Animal Science, Veterinary, Fisheries) have great research depth and academic breadth with range of degree programmes on offer. These institutions made concerted efforts for imparting quality higher agricultural education to the students in pursuit of developing globally competent human resource in the agriculture and allied sectors. During 2023-24 many of these institutions held their convocations, and awarded degrees of B.Sc., M.Sc., M. Tech, MBA and Ph.D. to the successful students including foreign students.

The IAUA in collaboration of GADVASU, Ludhiana organized 47th Vice Chancellor Convention on Food & Nutritional Security and Farmers' Welfare: Vision India-2047 and Beyond on 17-19 March 2024 at Ludhiana, Punjab. The Executive Committee meetings and Annual General Body meeting were also conducted to discuss the listed agenda items and decisions thereon. The 15th National Symposium of IAUA was organized on Millets for Climate Smart Sustainable Agriculture and Sound Human Health on 16-18 November 2023 at UAS, Dharwad, Karnataka. The 11th Brain Storming Session on Innovations in Sustainable Natural Resource Management on 7-8 April 2023 at RLBCAU, Jhansi, Uttar Pradesh and 12th Brain Storming Session on Redefining Agricultural Education to Leadership, Entrepreneurship, Employment and Discovery (LEED) on 24-25 August 2023 at SKUAST-K, Srinagar, Kashmir were also organized.

The IAUA congratulate the staff and students of the member Agricultural Universities who contributed to the advancement of the basic and applied research, development of technologies, and received degrees, prestigious awards and recognitions bringing laurels to the respective universities. The salient achievements of the IAUA' member Agricultural Universities accomplished during 2023-24 will certainly have significant impact on enhancing the agricultural production and income of the farmers. Some of these achievements along with activities and audit report of IAUA are presented in this Annual Report 2023-24. The efforts of Dr Dinesh Kumar, Executive Secretary are appreciated for compiling and bringing out the Annual Report 2023-24.



(Dr Parvinder Kaushal)
President, IAUA

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ABOUT IAUA

Indian Agricultural Universities Association

Indian Agricultural Universities Association (IAUA) was instituted on 10 November 1967. There were only nine (9) founder-member agricultural universities, namely, Punjab Agricultural University, Chandigarh (now Ludhiana); Andhra Pradesh Agricultural University, Hyderabad, (now Acharya N.G. Ranga Agricultural University, Guntur); Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur; Uttar Pradesh Agricultural University, Pantnagar (now Govind Ballabh Pant University of Agriculture and Technology); University of Agricultural Sciences, Bengaluru; Kalyani University, Kalyani (now Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur); Odisha University of Agriculture and Technology, Bhubaneswar; Udaipur University, Udaipur (now Maharana Pratap University of Agriculture & Technology), and Indian Agricultural Research Institute, New Delhi.

The main objective of the Association is to promote agricultural research, education and extension in the universities and the states, and thereby rural development in the country. It also acts as a bureau of information to facilitate communication, co-ordination and mutual consultation among agricultural universities. The IAUA facilitates conferences, seminars, workshops, lectures and brainstorming sessions in agricultural and applied programs.

Presently, IAUA has 73 member universities, which include 65 State Agricultural Universities; 4 Deemed-to-be Universities (Central Institute of Fisheries Education, Mumbai; Indian Agricultural Research Institute, New Delhi; Indian Veterinary Research Institute, Izatnagar; and National Dairy Research Institute, Karnal), 3 Central Agricultural Universities (Central Agricultural University, Imphal; Dr Rajendra Prasad Central Agricultural University, Pusa and Rani Lakshmi Bai Central Agricultural University, Jhansi) and one Central University with Agriculture Faculty (Banaras Hindu University, Varanasi). Considering the specialization, there are 46 Agricultural, 7 Horticultural, 17 Veterinary and Animal Sciences, and 3 Fisheries Science Universities in IAUA. All the State Agricultural Universities (SAUs) and deemed-to-be universities, Central Agricultural Universities and Central Universities with agriculture faculty in India, which provide an integrated programme of teaching, research and extension education in agricultural sciences are qualified to become members of the Association.

MANAGEMENT

General Body & Executive Committee

The Vice Chancellors of member universities constitute the Association's General Body. The General Body meets once a year to decide the agenda for the next convention and other events and also to adopt the audited accounts of the year besides approval of the budget estimates for the next financial year and the election of the Executive Committee for the following calendar year. The Executive Committee of the Association consists of *President, Vice President, Secretary General, Treasurer and Three Members*. The Executive Committee meets quarterly. The office of the Association is operated by the *Executive Secretary* who implements the decisions of General Body and Executive Committee on behalf of the Association.

The **Executive Committee** (comprising President, Vice President, Secretary General, Treasurer and Three Members) of the IAUA takes decisions in its quarterly meetings, regarding day-to-day functioning. Its directions on activities, events and policy matters are referred to the **General Body** (comprising all Vice Chancellors of the member universities) for final approval and ratification.

The composition of the Executive Committee during the year 2023 was as given below:

President:	Dr Rameshwar Singh Vice Chancellor, BASU, Patna	01-01-2023 to 16-03-2024
Vice President:	Dr Parvinder Kaushal Vice Chancellor, VCSGUUHF, Bharsar	01-01-2023 to 16-03-2024
Secretary General:	Dr N.P. Dakshinkar Vice Chancellor, DSVCKV, Durg	01-01-2023 to 15-07-2023
	Dr N.H. Kelawala Vice Chancellor, KU, Gandhinagar	01-08-2023 to 16-03-2024
Treasurer:	Dr N.H. Kelawala Vice Chancellor, KU, Gandhinagar	01-01-2023 to 31-07-2023
	Dr M.R. Saseendranath Vice Chancellor, KVASU, Wayanad	01-08-2023 to 02-03-2024
Members:	Dr S.D. Sawant Vice Chancellor, Dr BSKKV, Dapoli	01-01-2023 to 27-05-2023
	Dr M.R. Saseendranath Vice Chancellor, KVASU, Wayanad	10-01-2023 to 31-07-2023
	Dr Ajeet Kumar Karnatak Vice Chancellor, MPUAT, Udaipur	10-01-2023 to 16-03-2024
	Dr Ashok Kumar Singh Director, ICAR-IARI, New Delhi	07-06-2023 to 16-03-2024
	Dr M.S. Chauhan Vice Chancellor, GBPUAT, Pantnagar	02-08-2023 to 16-03-2024
Ex-Officio Member:	Dr R.C. Agrawal DDG (Edn), ICAR, New Delhi	01-01-2023 - continuing

During the year 2023, **Three** Executive Committee Meetings (ECM) were held, viz. **ECM-1/2023** on **15 February 2023**; **ECM-2/2023** on **29 May 2023**; **ECM-3/2023** on **20 September 2023**. The listed agenda items were discussed and decisions were taken on these.

New Executive Committee for 2024

The following members were elected for Executive Committee (2024) during Annual General Body Meeting (AGBM) held during 47th Vice Chancellors' Convention on 17 March 2024 at GADVASU, Ludhiana

1. Dr Parvinder Kaushal, Vice Chancellor, VCSGUUHF, Bharsar : President
2. Dr N.H. Kelawala, Vice Chancellor, KU, Gandhinagar : Vice President
3. Dr Ajeet Kumar Karnatak, Vice Chancellor, MPUAT, Udaipur : Secretary General
4. Dr M.S. Chauhan, Vice Chancellor, GBPUAT, Pantnagar : Treasurer



Dr Parvinder Kaushal



Dr N.H. Kelawala



Dr Ajeet Kumar Karnatak



Dr M.S. Chauhan



Dr D.R. Singh



Dr S.P. Tiwari



Dr Bijendra Singh



Dr R.C. Agrawal

5. Dr D.R. Singh, Vice Chancellor, BAU, Sabour : Member
6. Dr S.P. Tiwari, Vice Chancellor, NDVSU, Jabalpur : Member
7. Dr Bijendra Singh, Vice Chancellor, ANDUAT, Ayodhya : Member
8. Dr R.C. Agrawal (DDG, Agril. Education, ICAR) : Ex-Officio Member

11TH BRAINSTORMING SESSION

Innovation in Sustainable National Resource Management

In view of the natural resource degradation issues and further emerging challenges as well as the opportunities, the 11th Brainstorming Session of Indian Association of Agricultural Universities (IAUA) was organized by Rani Lakshmi Bai Central Agricultural University (RLBCAU), at Jhansi during 7-8 April 2023 on Innovation in Sustainable National Resource Management.

Besides inaugural and plenary sessions five technical sessions were held during the event:

- I. Sustainable management of soil and water resources
- II. Sustainable management of animal and fish resources
- III. Sustainable management of plant resources including biodiversity
- IV. Sustainable climate resilient practices, and
- V. Introducing innovations including AI, IoTs, block chain, agri-drone, blended learning, etc.

The Vice Chancellors from various State Agricultural, Horticultural and Veterinary Universities attended the Brainstorming Session. Besides, representative of Vice Chancellors, senior officials from ICAR, viz. DDG National Resource Management, (NRM); DDG (Fisheries); Director, Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad; and Vice President, National Academy of Agricultural Sciences (NAAS); Former Deputy Director General, (DDG) (Ag. Extension) also attended, and actively participated in this Brainstorming Session.

Padma Bhushan awardee Dr R.S. Paroda, former Secretary, DARE & Director General (DG), ICAR and Chairperson, Trust for Advancement of Agricultural Sciences (TAAS), New Delhi was the Chief Guest in the inaugural session. Dr Panjab Singh, former Secretary, DARE & DG, ICAR and Chancellor, RLBCAU, Jhansi chaired the Plenary session. Besides, Dr P.L. Gautam, former Chairperson, Protection of Plant Varieties and Farmers Rights Authority (PPV&FRA), New Delhi and NBA, Chennai and former Deputy Director General (DDG) (Crop Sciences), ICAR; Dr S.K. Chaudhary, DDG (NRM), ICAR, New Delhi; Dr J.K. Jena, DDG (Fisheries), ICAR, New Delhi; Dr P. Das, former DDG (Ag. Extension), and Dr A.K. Singh, Vice President, National Academy of Agricultural Sciences (NAAS), New Delhi also delivered keynote addresses during different sessions. The experts shared their experiences and also put forward their views for the way forward with regard to sustainable management of the natural resources. The proceedings and recommendations of the Brainstorming Session were shared with the stakeholders.



Dignitaries inaugurating the programme by lighting the lamp



Dr R.S. Paroda (Centre), Dr P.L. Gautam, Dr Punjab Singh, Dr Rameshwar Singh and Dr A.K. Singh (Left to Right) during inaugural session



Dr R.S. Paroda, Chief Guest, delivering the inaugural address

12TH BRAINSTORMING SESSION

Redefining Agricultural Education to Leadership, Entrepreneurship, Employment and Discovery (LEED)

In view of increasing challenges and global competition faced by the agriculture sector, it is essential to focus on developing much needed skilled workforce. This calls for strengthening the education and research infra-structure and sharing of national resources through collaboration between the institutions through collaborative research and sandwich academic programmes.

In view of this the 12th Brainstorming Session of IAUA was organized on Redefining Agricultural Education to Leadership, Entrepreneurship, Employment and Discovery (LEED) at Sher-e-Kashmir University of Agricultural Sciences and Technology-Kashmir, Srinagar on 24-25 August 2023. The Brainstorming Session brought together experts, to discuss innovative approaches to curriculum design, teaching methodologies, and student assessment that can produce skilled and employable graduates in agricultural sciences. The Brainstorming Session featured technical sessions, each focusing on a critical sub-theme related to agricultural education and research.

Attendees had the opportunity to learn about the future of agricultural education in alignment with the NEP-2020, bridging the skill divide in agriculture and related sectors, fostering entrepreneurship through incubation, innovation, and start-ups in agriculture universities, and maximizing the potential of Agri-4 technologies (AI, ML, IoT and Automation) for modernizing agriculture farms. This Brainstorming Session also provided an excellent opportunity for attendees to network, share ideas and best practices, and gain valuable insights into the future of agricultural education.



Shri Manoj Sinha, Hon'ble Lt. Governor, J&K (Centre) and dignitaries releasing a publication during inaugural session of 12th Brainstorming Session of IAUA held at SKUAST-K, Srinagar

15TH NATIONAL SYMPOSIUM

Millets for Climate Smart Sustainable Agriculture and Sound Human Health

The Food and Agriculture Organization (FAO) of the United Nations recognized 2023 as the International Year of Millets, and consequently the Government of India has been celebrating this International Year of Millets 2023 as a people's movement, thus aiming to position India as the global hub of millets. Efforts are being made globally to popularize millets in different ways to catalyze the stakeholders involved in the process right from farm-gate to dining-plate. Nevertheless, there are challenges that need to be addressed at various stages right from input procurement, cultivation, value addition to trade.



Chief Guest Dr Ashok Dalwai inaugurating the Symposium by lighting the lamp

With a view to addressing these pertinent issues, the 15th National Symposium of IAUA on Millets for Climate Smart Sustainable Agriculture and Sound Human Health was organized on 16-18 November 2023 at the University of Agricultural Sciences (UAS), Dharwad, Karnataka, jointly with the support of the Indian Agricultural Universities Association (IAUA), New Delhi.

The programme of 15th National Symposium was as follows:

- **Inaugural Session**
- **Technical Session 1:** Enhancing Productivity and Profitability of Millets - Economic and Ecological Concerns
- **Technical Session 2:** Millets for Sound Human Health
- **Technical Session 3:** Public-Private Partnership for Collaborative R&D and Trade
- **Technical Session 4:** Policy and Institutional Framework for Promotion of Millets
- Field Visits
- Common issues of SAUs in advancement of Teaching, Research and Extension
- Valedictory Session

Technical Sessions comprised Lead Lectures by eminent domain experts followed by Panel Discussions.

The Vice Chancellors, Deans, Directors, Professors, Scientists from various State Agricultural, Horticultural and Veterinary Universities, and senior officials from Department of Agriculture and Farmers' Welfare (DoAC&FW), and Private Sector attended the symposium. Besides, former Vice Chancellors of UAS, Dharwad and Rani Channamma University, Belagavi also attended the symposium.



Dr Ashok Dalwai delivering inaugural address

Dr Ashok Dalwai, former Secretary, Government of India was the Chief Guest in the Inaugural session and delivered the inaugural address. The experts shared their experiences and also put forward their views for the way forward with regard to increasing the productions and consumption, and health benefits of millets. The proceedings and recommendations of the Brainstorming Session have been shared with the stakeholders.

47TH ANNUAL CONVENTION OF VICE CHANCELLORS

Food & Nutritional Security and Farmers Welfare: Vision India 2047 and Beyond

The 47th Annual Convention of Vice Chancellors of member universities of Indian Agricultural Universities Association (IAUA) was organized by Guru Angad Dev Veterinary and Animal Science University (GADVASU) at main campus, Ludhiana from 17-19 March 2024. The theme of the convention was Food & Nutritional Security and Farmers' Welfare: Vision India 2047 and Beyond. The Vice Chancellors, Deans and Directors of about 35 Agricultural Universities from all over India participated in the convention. The Chief Guest of the inaugural session of this three-day programme was Padma Bhushan awardee, former Secretary DARE & DG, ICAR, and Chairperson, TAAS, Dr R.S. Paroda. He delivered inaugural address on Ensuring Food and National Security and Farmers Welfare-Vision India 2047. Dr Paroda said that there is a dire need for agricultural universities in India to provide comprehensive solutions to the problems of farmers. Dr Paroda explained the importance of the R&D and future research needs in the agricultural sector in details. The Guest of Honour of the programme, Food Prize Laureate, Dr Gurudev Singh Khush, in his address emphasized that success of organization depends on the leader of organization. He also spoke on the selection criteria and qualities of a good leader. The Guest of Honour, Dr R.C. Agrawal, DDG (Agricultural Education), Indian Council of Agricultural Research, New Delhi, spoke about the achieving excellence in Indian agricultural universities, and how to create such a system that directly contributes to the transformation of the country into a global knowledge superpower. Dr Inderjeet Singh, Vice Chancellor, GADVASU while welcoming all the dignitaries in the convention emphasized on the need of consultation on this subject to strengthen the current agricultural research and education system of the country. He also emphasized on the provision of appropriate financial support to the agricultural universities.

During the three-day convention, six technical sessions were conducted where intensive discussions were held on various issues concerning Indian agriculture, horticulture, animal husbandry, fishery and dairy sectors w.r.t. food security, climate change and farmers' welfare to develop a broad road map for Vision 2047 and beyond. Following topics were discussed during the sessions–



Dr Inderjeet Singh, VC, GADVASU Welcoming the Chief Guest Dr R. S. Paroda.
Dr G.S. Khush, Guest of Honour also seen in the Picture



Dr R.S. Paroda, Chief Guest delivering Inaugural Address

- Human Resource and Infrastructure
- Climate Smart Food Systems
- Farmers-Entrepreneurs-Scientists Interface
- Biodiversity and Natural Resources Conservation to face Climate Change
- Towards Zero Waste
- Agricultural Extension: Where do ICAR and SAUs fit in?

The keynote speakers and their topics in different sessions were: Padma Shri Awardee Dr B.S. Dhillon, former Vice Chancellor, PAU, Ludhiana (Food Grains); Dr Volker Gerdts, Executive Director and CEO, Vaccine and Infectious Disease Organization (VIDO), University of Saskatchewan, Canada (Creating Centres of Excellence in Agriculture and Allied Sciences); Dr Tarun Shridhar, former Secretary, Ministry of Fisheries, Animal Husbandry and Dairying (Livestock, Poultry and Fisheries); Dr Baljit Singh, Vice President-Research, University of Saskatchewan, Canada (One Planet, One Health and One Future); Dr S.K. Malhotra, Vice Chancellor, MHU, Karnal (Micro Irrigation Advancements for Higher Water Use Efficiency), and Dr A.S. Dhatt, Director Research, PAU, Ludhiana (Horticultural Crops).

The VI technical session of the convention was organized in collaboration with Khalsa College of Veterinary and Animal Sciences, Amritsar. The keynote speaker of the session Dr H.K. Verma, Principal, Khalsa College spoke on Agricultural Extension: Where do ICAR and SAUs Fit. During the Convention the delegates also got the opportunity to visit various facilities at GADVASU, Ludhiana; PAU, Ludhiana; and Khalsa College, Amritsar.

One session on Farmers-Entrepreneurs-Scientists Interface was dedicated to farmers wherein progressive farmers shared their experiences on dairy farming, horticulture, organic farming, etc. Insightful interaction was held between farmers and Vice Chancellors/Scientists on various emerging issues related to the agriculture sector.

The valedictory-cum-plenary session of the conventions was conducted on the second day where recommendations of different technical sessions were presented. During valedictory session IAUA-membership certificates were also awarded to the member universities.

The Annual General Body Meeting 2023 (AGBM 2023) of Indian Agricultural Universities Association (IAUA) was also conducted on 17 March 2024 at GADVASU, Ludhiana during the Convention. Dr Rameshwar Singh, Vice Chancellor, BASU, Patna and President, IAUA, chaired the meeting. Dr N.H. Kelawala, Secretary General, IAUA; Dr A.K. Karnatak and Dr M.S. Chauhan, Members, Executive Committee of IAUA were present in the AGBM. At the outset, Dr Rameshwar Singh, President, IAUA welcomed all in the Annual General Body Meeting of 2023 and thanked Dr Inderjeet Singh, Vice Chancellor, GADVASU, Ludhiana for hosting the 47th Vice Chancellors' Convention. He also thanked all the participating Vice Chancellors their representatives for attending the programme. In his initial remarks he appreciated the activities carried out by the IAUA and member universities. Later, the listed agenda items were discussed and decisions were taken on these.

IAUA MEMBER UNIVERSITIES

Year & Membership Number	University
1967	
IAUA-01	Punjab Agricultural University, Ludhiana, Punjab
IAUA-02	Acharya N.G. Ranga Agricultural University, Guntur, Andhra Pradesh
IAUA-03	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal
IAUA-04	Govind Ballabh Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand
IAUA-05	ICAR-Indian Agricultural Research Institute, New Delhi
IAUA-06	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh
IAUA-07	Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan
IAUA-08	Odisha University of Agriculture and Technology, Bhubaneswar, Odisha
IAUA-09	University of Agricultural Sciences, Bangalore, Karnataka
1969	
IAUA-10	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra
1970	
IAUA-11	Assam Agricultural University, Jorhat, Assam
IAUA-12	Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana
IAUA-13	Ch. Sarwan Kumar Himachal Pradesh Agricultural University, Palampur, Himachal Pradesh
IAUA-14	Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra
1971-72	
IAUA-15	Kerala Agricultural University, Vellanikkara, Thrissur, Kerala
IAUA-16	Dr Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar
IAUA-17	Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
1981	
IAUA-18	Birsa Agricultural University, Ranchi, Jharkhand
1983	
IAUA-19	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (K), Srinagar, Kashmir

1986

IAUA-20 Dr Y.S. Parmar University of Horticulture and Forestry, Nauni, Himachal Pradesh

1988

IAUA-21 University of Agricultural Sciences, Dharwad, Karnataka

1989

IAUA-22 Acharya Narendra Deva University of Agriculture and Technology, Ayodhya, Uttar Pradesh

IAUA-23 Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh

IAUA-24 ICAR-Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh

IAUA-25 Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh

IAUA-26 ICAR-National Dairy Research Institute, Karnal, Haryana

IAUA-27 Sardarkrushinagar Dantiwada Agricultural University, Sardar Krushinagar, Gujarat

IAUA-28 Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra

1990

IAUA-29 Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu

1994

IAUA-30 Central Agricultural University, Imphal, Manipur

1995

IAUA-31 West Bengal University of Animal and Fishery Sciences, Kolkata, West Bengal

1999

IAUA-32 ICAR-Central Institute of Fisheries Education, Mumbai, Maharashtra

IAUA-33 Dr Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra

2000

IAUA-34 Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Jammu

2002

IAUA-35 Maharashtra Animal and Fishery Sciences University, Nagpur, Maharashtra

IAUA-36 Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj, Uttar Pradesh

IAUA-37 Uttar Banga Krishi Viswavidyalaya, Cooch Behar, West Bengal

2003

- IAUA-38 Swami Keshwanand Rajasthan Agricultural University, Bikaner, Rajasthan
IAUA-39 Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Uttar Pradesh
-

2004

- IAUA-40 Anand Agricultural University, Anand, Gujarat
IAUA-41 Navsari Agricultural University, Navsari, Gujarat
IAUA-42 U. P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya, Mathura, Uttar Pradesh
-

2005

- IAUA-43 Junagadh Agricultural University, Junagadh, Gujarat
IAUA-44 Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar, Karnataka
-

2006

- IAUA-45 Banaras Hindu University, Varanasi, Uttar Pradesh
-

2007

- IAUA-46 Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab
IAUA-47 Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh
-

2009

- IAUA-48 Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya, Gwalior, Madhya Pradesh
IAUA-49 University of Agricultural Sciences, Raichur, Karnataka
-

2010

- IAUA-50 Bihar Agricultural University, Sabour, Bihar
IAUA-51 Dr Y.S.R. Horticultural University, Venkataramannagudem, Andhra Pradesh
IAUA-52 Rajasthan University of Veterinary and Animal Sciences, Bikaner, Rajasthan
IAUA-53 University of Horticultural Sciences, Bagalkot, Karnataka
-

2012

- IAUA-54 Banda University of Agriculture and Technology, Banda, Uttar Pradesh
IAUA-55 Kerala Veterinary and Animal Sciences University, Wayanad, Kerala
IAUA-56 Veer Chandra Singh Garhwali Uttarakhand University of Horticulture and Forestry, Bharsar, Uttarakhand
-

2013

IAUA-57	Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg, Chhattisgarh
IAUA-58	Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, Karnataka
IAUA-59	Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar, Haryana
IAUA-60	Nanaji Deshmukh Veterinary Science University, Jabalpur, Madhya Pradesh
IAUA-61	Sri Karan Narendra Agriculture University, Jobner, Rajasthan

2014

IAUA-62	Professor Jayashankar Telangana State Agricultural University, Hyderabad, Telangana
IAUA-63	Tamil Nadu Dr J. Jayalalithaa Fisheries University, Nagapattinam, Tamil Nadu

2015

IAUA-64	Kamdhenu University, Gandhinagar, Gujarat
IAUA-65	Kerala University of Fisheries and Ocean Studies, Kochi, Kerala
IAUA-66	Sri Konda Laxman Telangana State Horticultural University, Mulugu, Telengana

2016

IAUA-67	Rani Lakshmi Bai Central Agricultural University, Jhansi, Uttar Pradesh
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2017

IAUA-68	Agriculture University, Kota, Rajasthan
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2018

IAUA-69	Bihar Animal Sciences University Patna, Bihar
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2019

IAUA-70	P.V. Narsimha Rao Telangana Veterinary University, Hyderabad, Telangana
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2022

IAUA-71	Maharana Pratap Horticultural University, Karnal, Haryana
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2023

IAUA-72	Gujarat Natural Farming Science University, Anand, Gujarat
IAUA-73	Mahatma Gandhi University of Horticulture and Forestry, Patan, Chhattisgarh

AWARDS AND RECOGNITIONS

IAUA Awards for Outstanding Ph.D. Thesis Research for the Year 2023

The IAUA, from the year 2023, started awards for Ph.D. Thesis Research in four categories one in each (Agricultural Sciences including Agriculture Engineering; Horticulture Science including Forestry; Veterinary and Animal Sciences; and Dairy and Fisheries Sciences) to recognize outstanding original research done by Ph.D. students, to provide incentive for enhancing the quality of Ph.D. thesis research, and to promote high quality Ph.D. thesis research in emerging priority areas. The award carries ₹ 50,000 (Rupees Fifty Thousand) in each, a certificate and a plaque. The maiden awards were given during 47th Vice Chancellors Convention of IAUA held at GADVASU, Ludhiana during 17-19 March 2024. A brief description of awardees (2023) and their Ph.D. Thesis research work is given below category wise:

1. Agricultural Sciences including Agriculture Engineering (Jointly awarded to Dr Ragul S. and Dr Deepranjan Sarkar)

Dr Ragul S., Tamil Nadu Agricultural University (TNAU), Coimbatore was awarded IAUA Award for Outstanding Ph.D. Thesis Research in Agricultural Sciences including Agriculture Engineering category, Agricultural Sciences (Genetics and Plant Breeding) for his Ph.D. Thesis Genetic Analysis on Bruchine Resistance in Blackgram [*Vigna mungo* (L.) Hepper]. He did his doctoral research under supervision of Dr N. Manivannan, Professor (PBG), Centre of Excellence in Molecular Breeding, Centre for Plant Breeding and Genetics, TNAU, Coimbatore, Tamil Nadu, India.



Dr Ragul S.

Dr Ragul carried out screening for bruchid resistance and identified TU 68 as resistant donor in blackgram. GC-MS analysis identified active biochemical compounds with insecticidal activity in TU 68. Non additive gene action for bruchid resistance traits was identified in the generation mean analysis. Association studies identified that development time, total number of adult emergence, index of susceptibility, and seed damage were reliable selection indices for the seed weight loss in the bruchid resistance programme. Quantitative trait loci were identified for bruchid and mungbean yellow mosaic virus disease resistance and validated in two mapping populations. Complementary and digenic duplicate gene action were identified for bruchid resistance traits. Digenic inhibitory gene action for MYMV disease resistance was identified. Six and nine promising lines with bruchid and MYMV disease resistance were identified in marker-assisted selection and marker-assisted backcross, respectively. Introgressed lines had 64.8 - 72.4 % recurrent parent genome recovery with high yield.

Dr Deepranjan Sarkar, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi was awarded IAUA Award for Outstanding Ph.D. Thesis Research in Agricultural Sciences including Agriculture Engineering category, Agricultural Sciences (Soil Science and Agricultural Chemistry) for his Ph.D. Thesis Integration of Seedling Bio-Priming and Mineral NPK Fertilization on Nutrient Use Efficiency and Nutritional Quality of Red Cabbage [*Brassica Oleracea* L. Var. Capitata L. F. *Rubra* (L.) Thell] in Soils of Middle Gangetic Plains. He did his Ph.D. Thesis research under supervision of Dr Amitava Rakshit, Associate Professor, Department of Soil Science and Agricultural Chemistry, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India.



Dr Deepranjan Sarkar

Dr Sarkar carried out comprehensive assessment of bio-priming technology (considering the United Nations Sustainable Development Goals) under integrated nutrient management practice on nutritional quality, resource use efficiency (nutrient, energy), productivity, economics, and soil health of red

cabbage systems in the Middle Gangetic Plains of India. He concluded that the priming of red cabbage with compatible rhizospheric strains augmented the crop performance. However, the dual consortium of microbial agents along with 75% recommended dose of fertilizers resulted in a better proliferation of beneficial mutualistic microbes while forming a stable community structure and reducing unnecessary competition like in triple inoculation. The compatible microbes substantially resulted in higher crop yield along with improved nutrient composition by maintaining the soil quality. Although the application of triple species consortium improved carbon mineralization in laboratory conditions, the positive effects lowered down in field conditions. Thus, screening suitable consortium (especially, indigenous strains) and framing suitable policies (mass production) for the farming community in priming-based agroecosystems will help in better management of farm resources.

2. Horticulture Science including Forestry

Dr Neha Verma, Punjab Agricultural University, Ludhiana was awarded IAUA Award for Outstanding Ph.D. Thesis Research in Horticulture Science including Forestry category, Horticulture Science (Vegetable Science) for her Ph.D. Thesis research work on Inheritance and Molecular Mapping of Yellow Vein Mosaic Virus Disease (YVMVD) Resistance Gene(s) in Pumpkin (*Cucurbita moschata* Duch. Ex. Poir). She did her Ph.D. research under supervision of Dr Ajmer Singh Dhatt, Director of Research, Punjab Agricultural University, Ludhiana, Punjab, India.



Dr Neha Verma

Dr Verma's significant achievement is the identification of first novel resistance source with digenic recessive gene inheritance and closely linked KASP marker to resistant loci, which holds immense potential in future marker-assisted breeding of pumpkin. These research findings represent pioneering achievements in the country, and were published in high impactful journals. Her academic and research excellence was also acknowledged with the DST-INSPIRE fellowship and young researcher award.

3. Dairy and Fisheries Sciences

Dr Ravi Prakash, ICAR-National Dairy Research Institute, Karnal was awarded IAUA Outstanding Ph.D. Thesis Award in Dairy and Fisheries Sciences category, Dairy Science (Dairy Engineering) for his Ph.D. Thesis work on Design and Development of Phase Change Material based Milking cum Cooling Pail. He did his Ph.D. research under the supervision of Dr Menon Rekha Ravindra, Principal Scientist, Dairy Engineering, NDRI, Karnal, Haryana, India.



Dr Ravi Prakash

A nano-particle enhanced phase change material based rechargeable, handy and portable milking cum cooling pail for maintaining cold-chain from the milk production points in the villages was developed by Dr Ravi Prakash. The lab prototype tested at Livestock Research Centre of SRS, ICAR-National Dairy Research Institute, Bengaluru, exhibited the chilling of 5-6L of raw milk from 37°C to below 10°C in around 30-40 minutes. The developed pail maintained the chilled milk temperature for at least four hours when exposed to an environmental temperature of 40°C. The unit is intended to extend its utility in the rural and remote locations in unorganized sector of the developing nations to preserve original quality of raw milk as harvested. The anticipated benefits include augmenting of the overall revenue potential out of dairy business by reducing spoilage, minimizing recalls, improving shelf-life of milk products, and thereby, assisting in greater demand in the domestic and international markets.

4. Veterinary and Animal Sciences

Dr Ambreen Hamadani, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar was selected for IAUA Outstanding Ph.D. thesis research award in the category Veterinary and Animal Sciences, Animal Science (Animal Genetics and Breeding) for her Ph.D. Thesis Exploration of Artificial Intelligence for the Prediction of Genetic Merit in Sheep. She did her Ph.D. Research under the supervision of Prof. Nazir Ahmad Ganai, Vice Chancellor, SKUAST-K, Srinagar, Jammu and Kashmir, India.



Dr Ambreen Hamadani

Increasing population and diminishing resources are widening the demand-supply gap for animal protein and putting tremendous pressure on our existing production systems. This calls for the exploration of state-of-the-art techniques in animal sciences. Keeping this in view, Dr Ambreen evaluated 13 and 14 machine learning (ML) algorithms for breeding value and bodyweight predictions, respectively, and to develop deployable models for the same. Data spanning 52 years from the University farm were used. Various factor effects for heritability and breeding values (BV) estimations were also compared. The top three algorithms for bodyweight prediction were multivariate adaptive regression splines followed by Bayesian ridge regression and ridge regression with correlations between labels and predicted values of 99.3, 99.2 and 99.1, respectively. For BV predictions, random forests, gradient boosting, and XGBoost with correlations of 91.7, 91.5 and 91.5, respectively, performed best. Factor comparison revealed the importance of selecting the most appropriate model for heritability estimations or BV predictions. It is concluded that ML techniques can perform predictions with high accuracies and can be viable alternatives to conventional strategies for BV and performance prediction.



Dr Neha Verma, PAU, Ludhiana receiving the IAUA Award for Outstanding Ph.D. Thesis Research from Padma Bhushan Awardee Dr R.S. Paroda, Former Secretary, DARE & DG, ICAR in presence of Dr R.C. Agrawal (DDG, Agril, Edu, ICAR), World Food Prize Laureate Dr G.S. Khush; Padma Shri Awardee Dr B.S. Dhillon; Former VC, PAU; Dr Rameshwar Singh, President, IAUA; Dr S.S. Gosal, VC, PAU, Ludhiana

Other Awards and Recognitions

Anand Agricultural University (AAU), Anand, Gujarat

AAU Gets the Prestigious International Green University Award at Cornell University, New York

AAU, Anand was conferred with the prestigious International Green University Award at the 7th NYC School Conference, ILR School Cornell University, New York, USA on 15 September 2023. Dr Gautam Patel, the Registrar, received the award at the conference organized parallel to the 78th General Session of the United Nations, attended by prominent leaders, distinguished scientists, renowned teachers, policymakers, diplomats of various countries, and many administrators worldwide. Minister of Agriculture and Animal Husbandry, Government of Gujarat, Shri Raghavjibhai Patel; Minister of State, Agriculture, and Panchayat, Shri Bachubhai Khabad; and Additional Chief Secretary, Agriculture Department, Shri A. K. Rakesh congratulated the Vice Chancellor of AAU, Dr K.B. Kathiria, and the entire AAU team for this achievement.



Shri Bachubhai Khabad, Minister of State, Agriculture, and Panchayat, praised the Vice Chancellor, Dr K.B. Kathiria

Green Mentors, a globally renowned non-governmental organization and a designated consultative body of the United Nations Economic and Social Council (ECOSOC), awards educational institutions that have made outstanding commitments and efforts to protect the environment and promote green practices in the campus and curriculum for ecological balance. Green Mentors conferred this honour to AAU for its environment-friendly practices such as a green campus, plastic-free campus, water conservation, use of renewable energy sources, efforts to introduce environment-related courses, implementation of recycling process at university buildings, effective waste-management systems, use of solar panels for energy requirements, encouraging students to use electric bikes and bicycles, etc. This award will help AAU attract more international students and benefit significantly in various rankings and accreditations in the future.



Registrar of AAU receiving the Award at New York

Prof. Subodh Bhatnagar Award to Dr Akash Parihar

Dr Akash Parihar, Professor and Head, Genetics and Plant Breeding was honored with Prof. Subodh Bhatnagar Innovation Award-2023 by Springer Nature and the Society for Plant Research. The award is presented by Springer Nature and the Society for Plant Research in recognition of the lead scientist's contribution to innovative research in the field of crop improvement through biotechnology interventions as well as molecular breeding.



Dr Akash Parihar receiving the Award

Dr M.D. Patel Library Received J-Gate@CeRA Award

Dr M.D. Patel Regional e-Library received J-Gate@CeRA Award during J-Gate@CeRA Regional Training and Awareness Program for western region SAUs and ICAR institutes held at AAU, Anand on 21 December 2023.



University Librarian receiving the Award

Acharya N.G. Ranga Agricultural University (ANGRAU), Guntur, Andhra Pradesh

- Dr T.N.V.K.V. Prasad, Professor and Head, S.V. Agricultural College, Tirupati got recognition as Top 2 % most influential scientist in the world-Stanford's list 2023.
- Dr L. Edukondalu, Professor, College of Food Science and Technology, Pulivendula, Dr M. S. Chaitanya Kumari, Associate Dean, College of Community Science, Guntur and Dr Ravi Babu, Professor, Dr NTR CFST, Bapatla, received State Best Teacher Award from Government of Andhra Pradesh held at Andhra University, Visakhapatnam on 5 September 2023.

Agriculture University (AU), Kota, Rajasthan

Dr A.K. Vyas, Vice Chancellor, Agriculture University, Kota received Life Time Achievement Award-2021 by Indian Society of Agronomy, New Delhi during National Symposium on Climate Smart Agronomy for Resilient Production Systems and Livelihood Security, held at ICAR-Central Coastal Agricultural Research Institute, Goa during 22-24 November 2023.



Dr A.K. Vyas receiving Lifetime Achievement Award

Bihar Agricultural University (BAU), Sabour, Bihar

The BAU, Sabour, community radio station Green FM 90.8 was awarded the National Community Radio Station Award by the Government of India, Ministry of Information and Broadcasting for programme series Poshan Shrinkhala for the year 2022.



Dr Rajendra Prasad Central Agricultural University (Dr RPCAU), Pusa, Samastipur, Bihar

- Dr Bishnu Deo Prasad, Associate Professor, Department of Agricultural Biotechnology & Molecular Biology, CBS&H, Pusa was selected for the prestigious SERB International Research Experience (SIRE) award for high-end research in the field of Gene Editing for the year 2023-24 at John Innes Centre (JIC), Norwich, UK, a leading international centre of excellence in plant science.
- A student of the University - Ms Kashvi Kajal, Bachelor of Fisheries Science (2019-23) was awarded with a prestigious fellowship Erasmus Mundus Joint Master in Aquaculture, Environment and Society (EMJM ACES-STAR), from UHI-SAMS, Oban (Scotland, UK), University of Crete (Greece) and University of Nantes (France) for the year 2023-25.

Dr YSR Horticultural University (Dr YSRHU), Venkataramannagudem, Andhra Pradesh

- Dr R.V. Sujatha, Associate Professor (Economics), College of Horticulture, Venkataramannagudem, received **AP State Best Teacher Award** from Education Minister of Andhra Pradesh Shri Botsa Satyanarayana on 5 September 2023 on the occasion of Teachers' day.



Dr R.V. Sujatha receiving Award

- Ms A.I. Sudha Rani, B.Sc. (Hort.) III-year student won first place in 48th Andhra Pradesh State Yogasana competitions held at Kurnool on 9-10 September 2023. Dr M. Madhavi, Associate Dean, COH, V. R. Gudem felicitated the student for her achievement and Vice Chancellor Dr T. Janakiram appreciated the student on 11 September 2023.



First Place in 48th AP State Yogasana Competition

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana, Punjab

Distinguished Veterinarian of India Award to Dr Inderjeet Singh

Dr Inderjeet Singh, Vice Chancellor, GADVASU, Ludhiana was bestowed with the Distinguished Veterinarian of India award by the Veterinary Council of India. The award was conferred at an impressive national level event organized by the Department of Animal Husbandry and Dairying, Government of India at Vigyan Bhawan, New Delhi. Shri Parshottam Rupala, Union Minister for Animal Husbandry, Dairying and Fisheries of India conferred the honour in the presence of Dr Umesh Chandra, President, Veterinary Council of India, Dr Sanjeev Kumar Balyan, Union Minister of State, Dr B.N. Tripathi, Deputy Director General, Animal Sciences, ICAR and Dr Abhijit Mitra, Commissioner of Animal Husbandry, Government of India.



Dr Inderjeet Singh receiving the Award

International Award at Commonwealth Countries Forum

Dr Preeti, M.V.Sc. student of Centre for One Health, won Commonwealth Veterinary Association Essay Competition. In this competition, veterinary students across commonwealth countries participated and the first prize has been conferred on Dr Preeti. She was awarded with the citation and cash prize of AUS \$500.



Dr Preeti

Govind Ballabh Pant University of Agriculture & Technology (GBPUAT), Pantnagar, Uttarakhand

- Vice Chancellor, Dr M.S. Chauhan was honoured with Academic Leadership Award 2023 by Union Minister of Agriculture and Farmers' Welfare, Gol in the 14th Agriculture Leadership Conclave 2023.
- Dr S.D. Samantaray, Head, Department of Computer Engineering has been nominated as a Member of the Executive Committee of Uttarakhand State Council of Science and Technology (UCOST) by Uttarakhand Government on 3 November 2023 and is also included as an Expert in the Expert Group to make the work quick and effective of information Technology Development Agency (ITDA) Department of Information Technology Science and Technology, Uttarakhand.



Dr M.S. Chauhan receiving the Award

ICAR-Indian Veterinary Research Institute (ICAR-IVRI), Izatnagar, Uttar Pradesh

- Joint award to ICAR-IVRI and ICAR- NRC on Equines for development of Lumpy Skin Disease Vaccine on 95th Foundation of ICAR.
- Joint award to ICAR-Directorate of Foot-and-mouth Disease, Mukteswar and ICAR-Indian Veterinary Research Institute for Thermotolerant foot-and-mouth disease virus (FMDV) serotype O Indian vaccine strain O IND R2/1975 with enhanced immunogenicity in Cattle on 95th Foundation of ICAR.

Junagadh Agricultural University (JAU), Junagadh, Gujarat

CAET JAU Student Scores First Rank in ICAR AIEEA (PG) Examination

In yet another proud moment for the university, Mr Kamal Charan, a student of CAET, JAU, Junagadh, secured first rank in the ICAR-AIEEA (PG) results announced on 22 August 2023.

Kamdhen University (KU), Gandhinagar, Gujarat

- Dr Smit Ramesh Lende, Head, Centre of Excellence in Aquaculture received following awards:
 - **Excellence in Education Sector**, Diamonds of India Award, 2023.
 - **Young Academician Award**, Chronical Aquatic Science, 2023

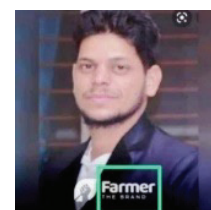
Gujarat State Yogasana Sports Championship

The first-year student of CoVS & AH, Navsari, Kadambari Upadhyay participated in the 4th Gujarat State Yogasana Sports championship 2023 organized by Gujarat Yogasana Sports Association at Bhavnagar on 8 December 2023, and won one gold and one silver medal. She was selected for Nationals Yogasana Championship.



Keladi Shivappa Nayaka University of Agricultural & Horticultural Sciences (KSNUAHS), Shivamogga, Karnataka

- Mr Praveen B. Baligere, Alumni of College of Horticulture, Hiriyyur was awarded 2022-23 Krishi Panditha award by Department of Agriculture, Government of Karnataka for his achievements of excellence in farming field.



Mr Praveen B. Baligere

- Dr C.M. Kalleshwaraswamy, Associate Professor of Entomology, College of Agriculture, Shivamogga, was selected for Post-Doctoral Fellowship, at Okinawa Institute of Science and Technology, Japan, for a period of one year. He will work on Termite Taxonomy to uncover their evolutionary process.



Dr C.M. Kalleshwaraswamy

Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur, Rajasthan

- Mr Divya Pratap Singh Rathore and Mr Faizan Khan, students of the Department of Electrical Engineering, College of Technology and Engineering secured Vikram Award, sponsored by Secure Meters, Udaipur. Both the students made smart gloves for the deaf and dumb so that such people and paralytic patients can easily express their words to others. Both the students were given cash prize of Rs 50,000 by the sponsors.
- Dr Ajeet Kumar Karnatak, Vice Chancellor was conferred upon the CHAI Honorary Fellow Award 2023 by the Confederation of Horticulture Associations of India (CHAI) for his outstanding contributions in research and development.



Dr Ajeet Kumar Karnatak,
Vice Chancellor, MPUAT,
Udaipur



Professor Jayashankar Telangana State Agricultural University (PJTSAU), Rajendranagar, Hyderabad

Agriculture Leadership Award 2023 under Entrepreneur Leadership Award category

AgHub, PJTSAU, was honoured with the prestigious Agriculture Leadership Award, 2023 under Entrepreneur Leadership Award category by the Agriculture Today Group. Recognized for impactful contributions to Agritech and allied sectors, especially for promoting entrepreneurship and innovations in Agri-Food systems in Telangana and across India, this award is a testament to commitment to revolutionize agriculture. The grand ceremony took place in New Delhi and witnessed the presence of illustrious dignitaries like Shri Arjun Munda, Minister for Agriculture and Farmers' Welfare, Government of India, and several other luminaries from the agricultural domain. The registrar, PJTSAU received the Award.



Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu (SKUAST-J), Jammu

Dr Ghanshyam N Jha of KVK-Doda received Fellowship award (FNAS) and Innovative Researcher Award-2023 during International Conference on Science, Society and Culture (ICSC-2023) held during 6-7 October 2023 organized by Nepal Aquaculture Society (NAS) at Kathmandu, Nepal.

Sher-e-Kashmir University of Agricultural Science and Technology of Kashmir (SKUAST-K), Srinagar, Kashmir

- SKUAST-K student Mehak Hafeez won US\$ 5,000 scholarship award for her innovative project on the detection of Harmful Algal Blooms (HABs) in Dal Lake through sensor-based technology. Mehak, a Ph.D. scholar at SKUAST-K in Division of Aquatic Animal Health Management (AAHM), Faculty of Fisheries, was awarded the Dr Gregory D. Bossart Memorial One Health Scholarship for her One Health Project titled Sensor-Based Detection of Harmful Algal Blooms (HABs) in Dal Lake, Kashmir: Advancing One Health through Participatory Surveillance by the United States-based One Health Commission and Georgia Aquarium.
- Prof. Tasneem Mubarak, Chief Scientist Agronomy, Mountain Research Centre for Field Crops (MRCFC), SKUAST-K, was conferred with IPI-FAI Award 2023, the prestigious International Potash Institute and Fertilizer Association of India. The award including a gold medal, citation and cash reward Rs 2 lakh was presented to him by Dr Mansukh Mandaviya, Union Minister for Chemicals and Fertilizers during the inaugural session of 3-day seminar organized by Fertilizer Association of India held from 06-08 December 2023.

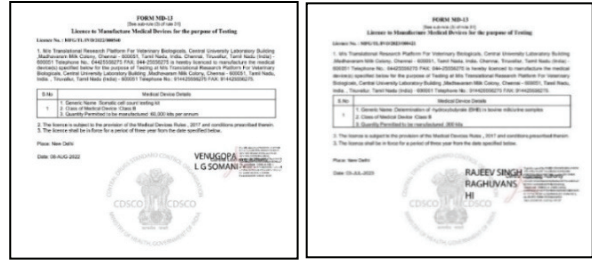
Tamil Nadu Agricultural University (TNAU), Coimbatore, Tamil Nadu

NIRF Ranking 2023-TNAU Triumphs: Under Agriculture and allied sectors category, the TNAU is ranked 5th out of 152 institutions across the country, 2nd among the State Agricultural Universities of India, 93rd among 2478 institutions representing all Public and Private funded Universities, Central and State Institutes, Autonomous bodies, etc. and 72nd out of 1073 universities that participated in the ranking. Dr V. Geethalakshmi, Vice Chancellor of TNAU, noted that the outstanding achievement of the university is due to its dedication to teaching, research, outreach, agribusiness, and ODL activities at the regional, national and international levels.



Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai, Tamil Nadu

- TANUVAS granted with manufacturing licence for test purposes by CDSCO for two of the Class B In-vitro diagnostics-TANUCHEK SCC kit and Keto Quant Kit developed by TRPVB through DBT funding under the Medical Devices Rules 2017.



- Vice Chancellor, TANUVAS, Dr K.N. Selvakumar and Dean, VCRI, Salem, Dr A. Elango were admitted as fellow of National Academy of Veterinary Sciences (NAVS, India) for significant contribution for advancement of Veterinary Sciences on 1 July 2023.



- The second conclave of Higher Education Institutions on NIRF-2023 was held at Raj Bhavan, Chennai on 26 July 2023. During the event, Honourable Governor-Chancellor, Shri R. N. Ravi felicitated TANUVAS for securing 12th rank in Agriculture and Allied Sector and First among the State Veterinary Universities of the country. Dr K.N. Selvakumar, Vice Chancellor, TANUVAS received the felicitation certificate, and presented the various initiatives taken by TANUVAS for securing the top rank in NIRF, 2023.



Dr K.N. Selvakumar, Vice Chancellor, TANUVAS receiving the Felicitation Certificate from Honorable Governor, Tamil Nadu Shri R.N. Ravi

- Miss M. Sadhana, student of Madras Veterinary College, Chennai, TANUVAS bagged first prize in Oratorical competition on G20 theme organized by All India Radio, Chennai, held at Ethiraj College from 24-25 August 2023 and received the prize from Hon'ble Governor of Telangana & LG, Puducherry, Dr Tamilisai Soundararajan on 3 September 2023.



Miss M. Sadhana receiving First Prize in Oratorical Competition on G20 Theme

- Selvi M. Thulasimathi, Student of Veterinary College and Research Institute, Namakkal, TANUVAS made India proud in the Badminton Asian PARA games at Hangzhou, China by winning Gold medal in singles, Silver medal in women's doubles and Bronze medal in mixed doubles.



Selvi M. Thulasimathi in a Badminton match in Asian PARA Games

University of Agricultural Sciences (UAS), Bengaluru, Karnataka

- Dr S.V. Suresha, Vice Chancellor, UAS, Bengaluru was honoured with Lifetime Achievement Award during ISEE National Seminar 2023 on 22 June 2023 held at Dr Babu Rajendra Prasad International Convention Hall, UAS, GKVK, Bengaluru.



Dr S.V. Suresha, Vice Chancellor,
UAS, Bengaluru

- Dr Sukanya T.S. was awarded Scientist of the year-2023 by Gochar Educational and Welfare Society, Saharanpur (Uttar Pradesh), India at the 4th International Conference on Natural Resource Management and Sustainability at Udayana University on 27 November 2023 at Bali, Indonesia.
- Srividya R., IV B. Tech. (Agricultural Engineering) student secured Silver Medal in Sate Fencing Championship- 2023 (in Senior Category) held at Koramangala Stadium, Bengaluru during 30 September 2023 to 02 October 2023. She was also selected to represent State in the 34th Senior National Fencing Championship 2023-24.

University of Agricultural Sciences (UAS), Dharwad, Karnataka

Dr P.L. Patil, Honoured with Prestigious Life Time Achievement

UAS, Dharwad Vice Chancellor Dr P.L. Patil, was honoured with prestigious Life Time Achievement at 2nd International Conference on Prospects and Challenges of Environment and Biological Sciences in Food Production System for Livelihood Security of Farmers, held from 18-20 September 2023 at ICAR-Central Island Agricultural Research Institute, Port Blair Andaman and Nicobar.



Dr P.L. Patil receiving the Award

Vasanttrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani, Maharashtra

Pulse Breeder Dr D.K. Patil of VNMKV was Awarded the Best Agriculture Scientist, at the auspicious hands of Shri Abdulji Sattar, Minister (Agriculture), Government of Maharashtra in 51st Joint Agricultural Research and Development Committee (Joint Agresco-2022) meeting of four SAUs of Maharashtra State jointly organized by Mahatma Phule Krishi Vidyapeeth, Rahuri and Maharashtra Council of Agriculture Education and Research, Pune, during 25-27 May 2023 at MPKV, Rahuri.

CONVOCATIONS

Dr YSR Horticultural University (Dr YSRHU), Venkataramannagudem, Andhra Pradesh

The 5th Convocation of Dr YSRHU was held on 12 May 2023 at the university campus located at Venkataramannagudem, Andhra Pradesh. The ceremony was graced by the presence of Shri S. Abdul Nazeer, Hon'ble Governor of Andhra Pradesh and Chancellor, Dr YSRHU. In his message he said that contributions of Dr YSR Horticultural University in the field of horticulture in Andhra Pradesh made everyone proud of the University. Joining the Chancellor was Prof. Ramesh Chand, member of NITI Ayog and renowned agricultural economist.

Dr T. Janakiram, Vice Chancellor of the Dr YSRHU, extended cordial welcome to the Chancellor Shri S. Abdul Nazeer, Dr Ramesh Chand, university officers, members of board of directors, members of academic council, teaching and non-teaching staff, students and parents, and proudly presented about the achievements of the University in education, research and extension.

On this solemn occasion, the university awarded Degrees to 1192 students (1069 B.Sc. (Hons) Horticulture and 97 M.Sc. (Horticulture) and 26 Ph.D. students), symbolizing their academic achievements and preparing them for a promising future in the field of horticulture.

Govind Ballabh Pant University of Agriculture and Technology (GBPUAT), Pantnagar, Uttarakhand

The 35th Convocation of the university was held on 07 November 2023 in which 1041 students were awarded undergraduate, Masters and Doctoral degrees in various courses. Hon'ble President of India graced the ceremony as the Chief Guest and delivered the Convocation address. On this occasion, a total of 14 Gold medals, 11 Silver medals, 10 Bronze medals and 06 other cash awards were awarded to meritorious students.



Hon'ble President giving Certificate to a student

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana, Punjab

University organized the 3rd Convocation on 06 May 2023. S. Kultar Singh Sandhwan, Speaker, Punjab Legislative Assembly graced the convocation as Chief Guest while S. Laljit Singh Bhullar, Cabinet Minister of Animal Husbandry, Fisheries and Dairy Development, Punjab was the Guest of Honour. S. Rupinder Singh Sodhi, President of the Indian Dairy Association and former MD, Amul received Doctor of Philosophy (Honoris Causa) for his praiseworthy contribution in developing the cooperative sector within the Indian dairy industry. A total of 315 degrees, 102 merit certificates and 17 gold medals were conferred on students who have successfully completed their academic programmes in Doctor of Philosophy, Master of Veterinary Science, Master of Dairy Science and Technology, Master of Fisheries Science, Master of Veterinary Science, Master of Science (Biotechnology), Bachelor of Veterinary Science and Animal Husbandry, Bachelor of Dairy Science and Technology, Bachelor of Fisheries Science and Bachelor of Biotechnology.



Shri R.S. Sodhi receiving Doctor of Philosophy (Honoris Causa)

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences (KSNUAHS), Shivamogga, Karnataka

The 8th Convocation of university was held at Iruvakki main campus on 21 July 2023. Shri Thawar Chand Gehlot, Hon'ble Governor of Karnataka and the Chancellor of University presided over the function and conferred the degrees to all the graduating students. In total, 409 UG Degree (B.Sc. Agri., Hort. and Forestry) graduates, 101 graduates of Master Degree and 23 graduates of Doctoral Degree received the degree both in person and in absentia. University awarded 37 Gold medals to meritorious students. Hon'ble Governor congratulated all graduates and wished them a bright future. Shri N. Chaluvarya Swam, Minister for Agriculture, Government of Karnataka and Pro-chancellor of this University was the chief guest of the function. Distinguished Chief Guest of the Convocation Rajarshi Dr Veerendra Heggade, Dharmadhikari of Shri Kshethra Dharmasthala delivered the Convocation address. Shri Bookanakere Siddalingappa Yediyurappa received Honorary Doctorate from Hon'ble Governor during the Convocation. Dr R. C. Jagadeesha, Vice Chancellor presented the University progress report. Members of the Board of Management and Members of Academic Council were also present. Dr Shashidhar, Registrar coordinated the event.

Kerala Veterinary and Animal Sciences University (KVASU), Wayanad, Kerala

The 4th Convocation of the Kerala Veterinary and Animal Sciences University, Pookode, Wayanad, was organized on 20 May 2023. In a ceremony held at the Kabani Auditorium of the University headquarters at Pookode, Wayanad, the Honourable Chancellor of the University Shri Arif Muhammad Khan, distributed gold medals, various endowment awards and certificates to the students who earned the highest achievements.

Smt J. Chinchurani, the Minister of State Animal Husbandry and Dairy Development and University Pro-Chancellor, and Dr Bhupendranath Tripathi, Deputy Director General (Animal Sciences), Indian Council of Agricultural Research (ICAR) were the chief guests of the function. Members of Board of Management of the University Mr O.R. Kelu, MLA; Mr Vazhursoman, MLA; District Police Chief Shri R. Anand, IPS and other elected people representatives and officials were present.

Gold medals to 19 meritorious students, 20 endowment awards, graduation certificates to 265 students, post-graduation certificates to 80 students, doctorate certificates to 19 students and diploma certificates, were distributed on the occasion.

University Vice Chancellor Prof. (Dr) M.R. Saseendranath, Registrar Prof. (Dr) P. Sudhir Babu, Director of Academic and Research Prof. (Dr) C. Latha, Director of Entrepreneurship Prof. (Dr) T.S. Rajeev, Faculty Deans Prof. (Dr) K. Vijayakumar, Prof. (Dr) S.N. Rajakumar, other Directors, University Management Council and Academic Council members participated in the Convocation.

Sri Venkateswara Veterinary University (SVVU), Tirupati, Andhra Pradesh

The 12th Convocation of SVVU, Tirupati was organized on 22 July 2023. Hon'ble Governor of Andhra Pradesh and Chancellor of the University Shri Abdul Nazeer and Chief Guest Dr M.R. Saseendranath, Vice Chancellor of Kerala Veterinary and Animal Sciences University, Wayanad, attended the programme. A total of 366 degrees and 35 gold medals, 1 Silver medal and 1 cash prize were awarded to the students.



Tamil Nadu Agricultural University (TNAU), Coimbatore, Tamil Nadu

The 43rd Annual Convocation of TNAU was held at Tamil Nadu Agricultural University, Coimbatore on 09 March 2024. Shri R.N. Ravi, Hon'ble Governor of Tamil Nadu and the Chancellor of TNAU, presided over the Convocation. Shri M.R.K. Panneerselvam, Minister for Agriculture and Farmers' Welfare Government

of Tamil Nadu and Pro-Chancellor of this University, announced the New Endowments. On this occasion, degree certificates were awarded to 1,589 candidates in person and 299 candidates in absentia mode from the Constituent Colleges and 1,845 candidates from Affiliated Colleges of TNAU.



Shri R.N. Ravi, Hon'ble Governor, Tamil Nadu Presenting Degree to Students

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai, Tamil Nadu

The 23rd Convocation of TANUVAS was held at Madras Veterinary College, Chennai on 13 March 2024. Hon'ble Governor of Tamil Nadu, Shri R.N. Ravi presented degrees and medals to the Graduands. Dr Raghavendra Bhatta, Deputy Director General (Animal Science), ICAR delivered Convocation address. A total of 1,166 candidates were awarded degrees including 796 Under graduates, 179 Post graduates, 113 Ph.D. scholars and 78 PG Diploma holders. A total of 253 medals / awards were awarded to 32 Under graduates, 49 Post graduates and 15 Ph.D. scholars for their academic excellence and performance, apart from 12 medals for the faculty members.



23rd Convocation of TANUVAS – MVC, Chennai

University of Agricultural Sciences (UAS), Bengaluru, Karnataka

The University of Agricultural Sciences, Bengaluru conducted its 58th Convocation on 04 March 2024. Dr S.V. Suresha, Vice Chancellor, UAS, Bengaluru, extended a warm welcome to all and provided an overview of the University Progress Report. Shri Thawar Chand Gehlot, Hon'ble Governor of Karnataka and Chancellor of UAS, Bengaluru, declared the Convocation Open. Shri N. Chaluvarya Swamy, the Minister for Agriculture, Government of Karnataka and Pro-Chancellor of the university delivered the convocation address. Shri M.C. Rangaswamy, progressive farmer from Doddamagge village, Arakalagudu Tq., Hassan Dist. received an Honorary Doctorate, in this Convocation.



During 58th Convocation 1,244 students were conferred with degrees, of which 870 students received Bachelor's, 291 students Master's and 83 students Doctoral degrees. Gold medals (156) and certificates were awarded to Under Graduate, Master's and Doctoral degree students, of which 49 girls received with 45 UAS Gold Medals, 66 Donor's Gold Medals and 19 Donor's Gold Medal Certificates; 14 Boys with 08 UAS Gold Medal, 15 Donor's Gold Medal and 03 Donor's Gold Medal Certificates, respectively.

University of Agricultural Science (UAS), Dharwad, Karnataka

Development in the field of agriculture is pivotal for India to become a developed country, said Secretary, Department of Agricultural Research and Education, Government of India and Director General, ICAR, New Delhi, Dr Himanshu Pathak. He delivered the Chief Guest Address at the 36th Convocation of UAS, Dharwad held on 12 June 2023. He, further, said that agriculture has to be converted into an industry, for the economic development of farmers and for more employment opportunities.



Hon'ble Governor of Karnataka and Chancellor of the University, Shri Thawar Chand Gehlot, in his presidential address, said that Agriculture Graduates should make agriculture self-reliant to make India a developed country where agriculture is the predominant occupation. Agriculture Minister of Government of Karnataka and Pro-Chancellor of the University Mr. N. Chaluvaryaswamy called upon scientists, teachers and students to develop more and more high yielding varieties to enhance the income of farmers.



Vice Chancellor, Dr P.L. Patil introduced the chief guests and welcomed everyone and presented a report on teaching, research, extension, seed production, students' activities, etc., of the university.

On this occasion, honorary doctorate degrees were awarded to Padma Shri awardees, Smt Tulsigowda of Uluvare Village (Ankola taluk) and Abdul Khadar Imamsab Nadakattin, Founder of Vishwashanthi Agricultural Research Centre, Annigeri in recognition of their services rendered in various fields.

During this convocation, a total of 966 candidates were awarded degrees, including 71 Ph.D., 269 postgraduate and 626 undergraduate degrees. Along with this, 38 Agricultural University Gold Medals, six other Gold Medals and nine Cash Prizes were awarded to talented and deserving candidates.

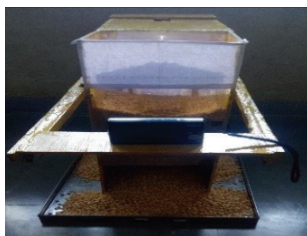
Registrar of the University, Dr S.S. Angadi, Members of Board of Management and Academic Council, Deans of constituent Colleges, Officers of the University and various retired officers and dignitaries were present during the programme.

INTELLECTUAL PROPERTY RIGHTS

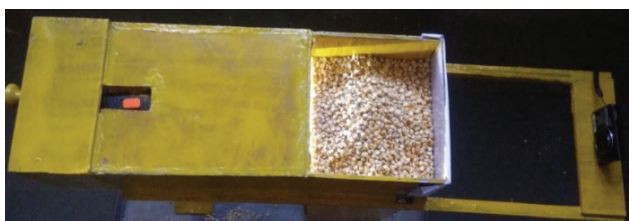
Anand Agricultural University (AAU), Anand, Gujarat

Patent for an Apparatus and Method for Measuring Angle of Repose

A patent on Apparatus and Method for Measuring Angle of Repose was granted to AAU, Anand (Patent Number: 479162) by Controller of Patents, The Patent Office, Government of India. The vision and motivation received from Dr K. B. Kathiria, Vice Chancellor, AAU played a key role in realizing this visionary invention.



The angle of repose refers to angle between the free inclined-plane and the base of piled grains. The angle is being affected by the shapes of particle, size, moisture content, stacking condition, etc. The angle of repose is useful in food industry, chemical industry, warehouses, feed, pharmacy, etc. Angle of repose and curvature of grains play an important role in selection of design features of hoppers, chutes, dryer, storage bins and other equipment.



Apparatus and Patent Certificate

The apparatus was developed at Department of Processing and Food Engineering, College of Agricultural Engineering and Technology, Godhra, AAU. The contribution of inventors namely, Dr Navneet Kumar, Dr Neeraj Seth, Er. Sravan Kumar, Er. Vishal Mehra, Dr Pankaj Gupta, Dr R. Subbaiah and Dr B.K. Yaduvanshi, is truly commendable and noteworthy.

Patent for Pneumatic Seed Metering Device

A Patent Number: 513810 was granted on Pneumatic Seed Metering Device to AAU, Anand. Seed planting machine with pneumatic seed metering mechanism can precisely sow the seeds for higher productivity. It can be used for precise sowing of different crops having different seed sizes and shapes with some adjustments. The contribution of inventors namely, Dr Pankaj Gupta, Dr R. Swarnkar, Dr S.K. Patel, Dr R.C. Salunkhe, Dr B.K. Yaduvanshi, Shri Nilesh M. Patel, is truly commendable and noteworthy.

Patent for Food Pulp Extracting Device

A patent was granted for a Food Pulp Extracting Device to AAU, Anand (Patent Number: 5168590). The Food Pulp Extracting Device extract food pulp from seeded fruits, eliminating the need for manual seed removal. It comprises an outer cylinder enclosing a perforated cylinder, auger, brush, and feeding hopper. The device operates in a closed environment, reducing oxidation and contamination risks. The inventors are Dr Farid G. Sayyad, Dr B.K. Yaduvanshi, Dr Navneet Kumar, Dr M.M. Trivedi, Dr S.K. Patel, Er. Sravan Kumar and Dr Shailendra Gangwar.



Food Pulp Extracting Device

Bihar Agricultural University (BAU), Sabour, Bihar

Patent for CQDs

Bihar Agricultural University, Sabour has achieved a remarkable milestone by securing its first international patent from Germany. This ground breaking utility patent is titled as A System to Improve the Post-harvest Quality of Banana using Synthesized Carbon Quantum Dots (Utility model number 20 2023 104 654). Dr Mohammed Wasim Siddiqui, a postharvest researcher at the university, in collaboration with a

multidisciplinary team, developed an innovative technology to improve the postharvest quality of bananas using synthesized carbon quantum dots (CQDs).

In this pioneering work, carbon quantum dots were meticulously synthesized from banana peels using an environmentally friendly green synthesis method, followed by a comprehensive characterization process. The resulting CQDs are highly effective in preserving and enhancing the postharvest quality of bananas during storage.



Patent for Superabsorbent Polymer

Team of Scientist led by Dr Nintu Mandal, Assistant Professor at Department of Soil Science and Agricultural Chemistry, BAU, Sabour developed a unique product (NSP) for which the university got a patent (Patent Number: 451589; Date of Grant:14.09.2023) from the Patent office, Government of India. The title of patent is "A Superabsorbent Polymer (NSP) and process for preparing the same". This patent was granted the term of 20 years from the 18th day of May 2020 in accordance with the provisions of the Patents Act, 1970.



Chaudhary Charan Singh Haryana Agricultural University (CCSHAU), Hisar, Haryana

- Instrument Name: Garlic Stalk cutter cum Grader Machine; Design No. 339194-00; Granted on 02/05/2023; Inventor Name: Charan Singh, Vijay K. Singh, M.K. Garg, Department of P&FE, COAE&T.
- Versatile Handy Trolley invented by Aysha, Meenu, Dr Manju Mehta, Department of FRM, COHS, CCSHAU, Hisar Design Granted on 17/08/2023. Design No. 386671-001
- Scholar's Chair invented by Meenu, Aysha, Dr Manju Mehta, Department of FRM, COHS, CCSHAU, Hisar Design Granted on 17/08/2023 Design No. 386669-001

Dr Rajendra Prasad Central Agricultural University (Dr RPCAU), Pusa, Samastipur, Bihar

Geographical Indication (GI)

Marcha Dhaan of West Champaran (Bihar) got the status of Geographical Indication.

University facilitated the Marcha Dhan Utpadak Pragatisheel Samuh, to get the Geographical Indication status for the Marcha Dhaan in co-ordination with the District Administration, West Champaran (Bihar).



Patents Granted

- Energy dense nutritive food having balanced nutritional composition and process for preparation-2023. Patent Number: 448601, Date of Grant: 31.08.2023.



- A patent for an invention entitled 'A Solar Powered Fish Preservation and Transportation Cart' was granted on 23 November 2023 (Patent Number: 472593). Vice Chancellor, Dr P.S. Pandey felicitated the Scientists associated with this innovation.



The Cart



Dr P. S. Pandey felicitating the Scientists

- A patent for an invention entitled Mushroom biscuits and preparation thereof, was granted on 01 March 2024 (Patent Number: 518386). Vice Chancellor, Dr P.S. Pandey felicitated the Scientists associated with this innovation.

Dr YS Parmar University of Horticulture and Forestry (Dr YSPUHF), Naini, Himachal Pradesh

Preservative free kiwi juice acidified sugarcane juice powder and process for preparing the same invented by Devina Vaidya, Manisha Kaushal, Anil Gupta and Sristi Vats (Patent Number: 456154, dated 16/06/2023) The Patent Office, Journal No 24/2023 on Page - 43353 Filing Number: 202111057664 A.

Govind Ballabh Pant University of Agriculture and Technology (GBPUAT), Pantnagar, Uttarakhand

- Cover Spun Yarns of Flax, Lyocell and Spandex Fibers and their Fabrics: Inventers-Dr Swati Sahu and Dr Alka Goel (Patent Number: 472743, Date of Grant: 24 November 2023).
- Biosensor Equipped Toxin Detection Device: Inventers-Dr Amit Kesarwani (Patent Number: 394825-001, Date of Grant: 11 September 2023).

ICAR- Indian Veterinary Research Institute (ICAR-IVRI) Izatnagar, Uttar Pradesh

Copyrights

- आई वी आर आई – जैव सुरक्षा एप: (ROC No.: L-122567/2023; Rupasi Tiwari, Triveni Dutt, Anuj Chauhan, Amit Kumar, Pratikshya Panda, Arun S Somagond, Ajit Singh Yadav, AK Tiwari, Sudeep Marwaha, Mukesh Kumar, Soumen Pal; Date of Grant: 30.05.2023)
- रोगानुरोधी प्रतिरोध एप्प by Triveni Dutt, Rupasi Tiwari, Himani Dhanze, Suman Kumar, Amit Kumar, Samiran Bandyopadhyay, Sudeep Marwaha, Mukesh Kumar, Soumen Pal and Date of Grant:19.09.2023; Diary No. 25961/2023-CO/L.
- IVRI-Veterinary Surgery & Radiology Tutorial App by Triveni Dutt, Rohit Kumar, Amarpal, Abhishek Chandra Saxena, Rupasi Tiwari, Amit Kumar, Sudeep Marwaha, Mukesh Kumar, Soumen Pal and Date of Grant:19.09.2023; Diary No. 25960/2023-CO/L.

Junagadh Agricultural University (JAU), Junagadh, Gujarat

Pomegranate Juice Extractor

The pomegranate juice extractor machine developed at the Department of Processing and Food Engineering Department, CAET, JAU, Junagadh, was granted a patent by the Controller of Patents,

Patent Office, Gol, on 01 February 2024, (Patent Number: 506284). The specific attribute of the invention is that the whole fruit, without any need for cutting, can be used to extract the juice with the machine. The functions of cutting, aril pressing, juice extraction, juice filtering, and waste disposal can all be done in the machine itself with little effort from the users. As the contact parts of the machine are of PTFE and stainless steel, any physical or chemical reaction with the fruits is totally negated, leading to better juice recovery and quality. When compared to metallic rollers, the machine is also energy efficient and economically viable.



Open Core Throat Less Downdraft Biomass Gasifier

The CAET, JAU, Junagadh, received a design patent for its invention on Open Core Throat Less Downdraft Biomass Gasifier, from the Patent Office, Gol, on 22 March 2024. Dr V. P. Chovatia, VC, appreciated the efforts of Shri Sagar Kalaiya, Er. Makavana Jagubhai, Dr P.M. Chauhan, and Dr P.N. Sarsavadiya.

Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV), Jabalpur, Madhya Pradesh

Mitigation of *Fusarium* wilt in chickpeas through self-prepared Bio-regulators; Patentee: Dr Gyanendra Tiwari, Dr Anubha Upadhyaya; Patent Number: 522452, Date of Grant: 08 March 2024.

Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur, Rajasthan

- A Design Patent Number: 381754-001 on Activated Biochar Air Purification Cartridge was granted to Directorate of Research, MPUAT on 23 May 2023. The inventors are Ms Priti Jagnade (Ph.D. scholar), Dr Narayan Lal Panwar (Associate Professor and Head), Ms Neelam Rathore (Senior Research Fellow), Department of Renewable Energy Engineering and Mr Sandip Gangil, CIAE, Bhopal.
- Dr Narayan Lal Panwar, Head and his Ph.D. student Mr Maga Ram Patel of the Department of Renewable Energy Engineering, College of Technology and Engineering, MPUAT obtained a South African patent (Patent Number: 2023/01203, dated 29 March 2023) for creating and developing a grassroots technology called Energy Efficient Biochar Kiln for Production of Biochar from Agricultural Crop Residues.
- A Design Patent (Design No. 383116-001, dated 5 April 2023) for the manual driven solar power ice cream cart was granted to Dr Narayan Lal Panwar, HoD and his Associates scholars Maga Ram Patel, Barkha Shakeel, Kuldeep Kumar and Lokendra Singh Rathore of Department of Renewable Energy Engineering, College of Technology and Engineering.

Navsari Agricultural University (NAU) Navsari, Gujarat

Patent for Nauroji Stonehouse Fruit Fly Trap

User friendly and ergonomically designed Nauroji Stonehouse Fruit Fly Trap (Patent Number: 366004-001, dated 13 June 2023) developed by Dr Z. P. Patel, Vice Chancellor, Navsari Agricultural University, Navsari, Gujarat was registered by Controller General of Patents, Designs and Trade Marks, The Patent Office, Government of India. The trap was registered in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001. The trap is used to capture male fruit fly of vegetables and fruits depending upon the type of lure being used. This is foldable trap, which acquire lesser space and can easily be dispatched through post. It is simple to unfold and install the trap in any field.



Patents for Decorative Butterfly Paper Weight Article

NAU prepared the Decorative Butterfly Paper Weight article in order to enhance the elegance of the product. This is novel and meant for office tables as well as in insect-museum for long term preservation without deterioration of butterfly for study reference. It is compact and easy to carry. This design was registered in the name of Navsari Agricultural University, Dr Sachinkumar R. Patel, Dr Abhishek Shukla and Dr Zinabhai P. Patel. The elegancy of butterfly paper weight article especially the real butterflies having aesthetic value and importance to attract the artists.



Odisha University of Agriculture and Technology (OUAT), Bhubaneswar, Odisha

- A patent was granted for invention on a process for manufacture of acaricidal composition in the form of decoction, vide Patent Number: 492633 dated 01 January 2024.
- Patent was granted on a portable evaporatively cooled storage system, vide Patent Number: 501950 dated 22 January 2024.
- A patent was granted in favour of OUAT, ICAR and AICRP on UAE for the invention of Bullock Drawn Engine Operated Rotavator, vide Patent Number: 510251 dated 13 February 2024.
- Design registration on Maize Dehusker-cum-Sheller (Design no.390459-001) under the provisions of the Design Act, 2000 was awarded jointly to OUAT and ICAR vide L. Sl. No. 161108; dated 22 March 2024. The average output of the maize dehusker-cum-sheller is 166 kg/h with a feed rate of 230 kg/h.



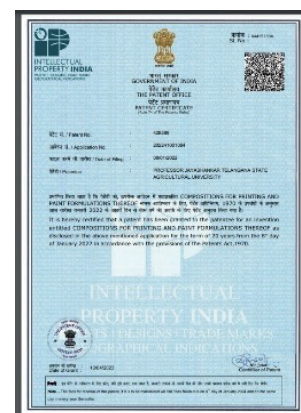
Bullock Drawn Engine Operated Rotavator



Maize Dehusker-cum-Sheller

Professor Jayashankar Telangana State Agricultural University (JTSAU), Hyderabad, Telangana

- Professor Jayashankar Telangana State Agricultural University was granted patent entitled Compositions for Printing and Paint Formulations Thereof, Application No. 202241001084. Patent Number: 428588.
- Dr K. Charith Kumar, Assistant Professor, College of Agricultural Engineering, Kandi, Sangareddy received the patent titled A Vertically Aligned Pre-Cooler for Cryogenic Grinding System. Patent Number: 504103, Date of Grant: 29/01/2024.



Punjab Agricultural University (PAU), Ludhiana, Punjab

Indian Patent (Number: 508659) was obtained for Bacteriological Food Testing Kit (BFTK) for rapid and efficient detection of presence/absence of recurrent indicator and emerging pathogens in food sample on 08.02.2024.

Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu (SKUAST-J), Jammu

- Pharmaceutical composition with synergistic combination of Thymus serpyllum essential oil and antibiotic (Patent Number: 445175, Date of Grant: 16/8/2023)
- Device to monitor growth and identify disease of a plant, UK Design Patent Number: 6307698, Date of Grant: 12 September 2023.

Surfactant Aided Improved Methodology of Urea-Ammonization of Straw

- Application No. 201711044268; Team of Scientists: Farroq Ahmad Chopan, Dr Ankur Rastogi, Dr R. K. Sharma and Pratiksha Raghuvanshi; Date of Grant: 16 January 2024; Patent/Design Number: 499770.

A portable Multi Functional Seeder and Fertilizer Machine

- Application No. 202011056484A; Team of Scientists: Dr B.C. Sharma, Dr Vishal Gupta
Date of Filing: 25.12.2020; Date of Grant: 16 January 2024; Patent/Design Number: 530790.

Portable Ohmic Heater

- Application No. 6347594; Team of Scientists: Dr Anjum Ayoub, Dr Shahid Ahamad, Dr Nazam Khan, Dr Sahar Masood, Dr Vishal Gupta, Dr Brajeswar Singh; Date of Grant: 26 February 2024; Patent/Design Number: 6347594.

Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Srinagar, Kashmir

- Detection of DNA polymorphism on polyacrylamide gel and method thereof Patent Number: 42477.
- Comprehensive, automatic in-shelled walnut processing system and an application method thereof by Dr Zameer Hussain. Granted on 22 November 2023; Patent Number: 471699; Application No. 202011026411.
- Nucleotide sequences for improving tolerance of plants to environmental stress by Dr Khalid Z. Masoodi. Granted on 18 December 2023; Patent Number: 484202; Application No. 202011034328
- Solar Powered Insect trap lighting device by Dr Munazah Yaqoob and Falak Jain. Date of Grant: 05/01/2024; Patent Number: 396847-001.
- Nutritional Herbal compound / Extract and its method of preparation by Dr Khalid. Z. Masoodi. Date of Grant: 15/01/2024; Patent Number: 499495.
- Smart fishing rod by Mr. Adil Hussain Mugloo. Date of Grant: 19/01/2024; Patent Number: 399758-001.
- An improved pre conditioning method of walnut cracking for value addition of kernels by Dr Syed Zameer. Date of Grant: 09/02/24; Patent Number: 508996.
- An improved multifunctional power operated high efficiency walnut dehuller-cum- washer by Dr Syed Zameer. Date of Grant: 06/02/24; Patent Number: 507376.
- Portable Kiwi gummy maker machine by Dr Nowsheen Nazir. Date of Grant: 01/02/2024; Patent Number: 400082-001.
- Rain Water Harvesting with zero energy by Dr Waseem Raja. Date of Grant: 02-02-2024; Patent Number: 506657.
- Low-cost mushroom structure design for production of mushroom under cold arid conditions by Dr Vikas Gupta. Date of Grant: 12-03-2024; Patent Number: 523702.

- High efficiency electric walnut grading machine by Dr Syed Zameer. Date of Grant: 13 March 2024; Patent Number: 524816.

Tamil Nadu Agricultural University (TNAU), Coimbatore, Tamil Nadu

- UAV Downwash Airflow Test RIG (Inventers: Er. D. Yallappa, Dr R. Kavitha, Dr A. Sureshkumar, Dr Balaji Kannan, Dr M.K. Kalarani and Dr B. Suthakar). Patent Number: 133788.
- Dual Purpose Agricultural Implement (Inventers: E. Ramya, P. Pavithra, M. Arunkumar, Dr A. Kamaraj, Dr M. Pandian, Dr R. Baskaran and Dr V. Sivakumar). Patent Number: 133988.

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai, Tamil Nadu

- Patent No. 415409: Composition to enhance rumen fermentation and mitigating methane emission in dairy cattle. Inventors: Dr V. Balakrishnan and Dr R. Murugeswari.
- Patent No. 429922: A tick-controlling formulation of dimethicone and the process thereof. Inventors: Dr P. Azhahianambi, Dr K. Chithra, Dr Sarath Sagar, Dr R. P. Aravindh Babu, Dr T.M.A. Senthilkumar and Dr G. Dhinakar Raj.
- A method for detecting RBC/platelets bound antibodies in canines and the kit thereof (Patent Number: 472138 and Date of Grant: 23 November 2023).
- A Hammer with pre-determined tattooing pins for impregnating the information of the animal (Patent Number: 438440 and Date of Grant: 12 July 2023).
- A mechanical width adjustable dual integration arm device for hoisting the injured animal developed by the faculty members of TANUVAS. (Patent Number: 473733 and Date of Grant: 29 November 2023).

University of Agricultural Science (UAS), Bengaluru, Karnataka

- A Biosensor for the Early Detection of Plant Pathogens, (Patent Number: 456261, Date of Grant: 03 October 2023). Associated scientists: Anitha Peter, Amrita Sukrity, Rohini Bhat V., Soumya Ganapati Bhat, M. Roshni, Regional Station, Anantapur.
- A soil conditioner and application related thereto (Patent Number: 450892, Date of Grant: 12 August 2023). Associated scientists: Dr N.B. Prakash and his co-workers at University of Agricultural Sciences, GKVK, Bangalore and Tata Steel.
- Solar powered roof top aquaponics food production system; Patent Number: 497178; Date of Grant: 10 January 2024.
- Design and development of nanofluid based extended surface module for milkcooling; Patent No: 516796; Date of Grant: 28 February 2024.
- Root vegetables cleaning machine; Design Number: 389643-001; Date of Grant: 21 February 2024.

RESEARCH PUBLICATIONS (> 15 NAAS RATING)

Chaudhary Charan Singh Haryana Agricultural University (CCSHAU), Hisar, Haryana

Mondal S., A. Jatrana, S. Maan and P. Sharma (2023). Lignin modification and valorization in medicine, cosmetics, environmental remediation and agriculture: review. *Environmental Chemistry Letters*, 21, 2171-2197. **(NAAS Rating :19.6)**.

Rani N., A. Duhan, A. Pal, P. Kumari, R.K. Beniwal, D. Verma and R. Singh (2023). Are nano-pesticides really meant for cleaner production? An overview on recent developments, benefits, environmental hazards and future prospectives. *Journal of Cleaner Production*, 137232. **(NAAS Rating: 17.1)**.

Sachin D.G., S. Singh and M. Rajeevan (2023). WiFEX: Walk into the warm fog over Indo Gangetic Plain region. *Bull American Met Soc.* 104 (5): E980-E1005. DOI: <https://doi.org/10.1175/BAMS-D-21-0197.1> **(NAAS Rating: 15.12)**

Govind Ballabh Pant University of Agriculture and Technology (GBPUAT), Pantnagar, Uttarakhand

Singh Shivendra, Sumit Chaturvedi, Prayasi Nayak, Vipin Chandra Dhyani, Tony Manoj K. Nandipamu, Dhananjay Kumar Singh, Pratibha Gudapaty, Prabhakar Mathyam, Kanchu Srinivasrao and Kasivelu Govindaraju. (2023) Carbon offset potential of biochar based straw management under rice- wheat system along Indo-Gangetic Plains of India. *Science of the Total Environment* 897, 1 November 2023, 165176 **(NAAS Rating: 16.88)**

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai, Tamil Nadu

Desingu P.A., K. Nagarajan and N.R. Sundaresan (2023). Unique Tandem Repeats in the Inverted Terminal Repeat Regions of Monkeypox Viruses. *Microbiology Spectrum*, ppe03199-22 **(NAAS Rating: 15.04)**.

Desingu P.A. and K. Nagarajan (2023). Unveiling HERV-K113-ENV as SARS-CoV-2 severity admissible biomarker by mining transcriptome data. *Journal of Medical Virology*, 95(1):149 **(NAAS Rating: 20.00)**.

VICE CHANCELLORS

Relinquishments

Sr. No.	Name	University	Date of Retirement/Term Completion
1	Dr S.D. Sawant	DBSKKV, Dapoli	29.05.2023
2	Dr S.K. Chakrabarti	UBKV, Cooch Behar	04.06.2023
3	Dr K. Riji John	KUFOS, Kochi	04.07.2023
4	Dr K.M. Indiresh	UHS, Bagalkot	13.07.2023
5	Dr N.P. Dakshinkar	DSVCKV, Durg	15.07.2023
6	Dr V.P. Reddy	SVVU, Tirupati	04.08.2023
7	Dr A. Vishnuvardhan Reddy	ANGRAU, Guntur	13.08.2023
8	Dr H.K. Chaudhary	CSKHPKV, Palampur	21.08.2023
9	Dr G. Sugumar	TNJFU, Nagapattinam	09.09.2023
10	Dr Onkar Nath Singh	BAU, Ranchi	18.09.2023
11	Dr Vangur Ravinder Reddy	PVNRTV, Hyderabad	17.01.2024
12	Dr M.R. Saseendranath	KVASU, Wayanad	02.03.2024

Appointments

Sr. No.	Name	University	Appointment Date
1	Dr S.G. Bhawe	DBSKKV, Dapoli	07.06.2023
2	Dr Anand Kumar Singh	CSAUA&T, Kanpur	16.06.2023
3	Dr B.N. Tripathi	SKUAST, Jammu	20.06.2023
4	Dr Niteen V. Patil	MAFSU, Nagpur	11.08.2023
5	Dr R.R. Bijoy Singh	DSVCKV, Durg	11.09.2023
6	Dr S.C. Dubey	BAU, Ranchi	16.01.2024
7	Dr S.K. Malhotra	MHU, Karnal	22.02.2024
8	Dr Vishnuvardhana	UHS, Bagalkot	06.03.2024

IAUA PUBLICATIONS

1. Annual Report 2022-23.
2. Newsletter: Four Volumes – Vol. 23 No.1, Vol. 23 No. 2, Vol. 23 No. 3, Vol. 23 No. 4.
3. Proceedings of 11th Brainstorming Session: Innovation in Sustainable National Resource Management, held at RLBCAU, Jhansi on 7-8 April 2023.
4. Proceedings of 12th Brainstorming Session: Redefining Agricultural Education to Leadership, Entrepreneurship, Employment and Discovery (LEED), held at SKUAST, Kashmir, Srinagar on 24-25 August 2023.
5. Proceedings of 15th National Symposium: Millets for Climate Smart Sustainable Agriculture and Sound Human Health, held at UAS, Dharwad on 16-18 November 2023.

PROGRAMME FOR 2024-2025

1. 13th Brainstorming Session on Agriculture Market Intelligence, held at AAU, Anand on 17-18 October 2024.
2. 16th National Symposium on Protected Cultivation of Horticultural Crops: Challenges and Potential Solutions at RARI, Durgapura of SKNAU, Jobner.
3. 48th Vice Chancellors' Convention on Agritourism in India: Bridging Education and Rural Development at ANDUAT, Ayodhya.

ACKNOWLEDGEMENT

The Association thanks the outgoing Executive Committee for commendable contribution to the IAUA. The Association place on record its gratitude to all Vice Chancellors of member universities for guidance, support and advice. The Association is also grateful to Dr Rameshwar Singh, former Vice Chancellor, BASU, Patna and the former president, IAUA, and each member of Executive Committee for carrying out the mandate of the Association to its new heights for greater visibility through various activities despite their busy schedules and participation in various meetings/conference of ICAR. The financial and logistics support of the DARE and ICAR is gratefully acknowledged.



(Dr Parvinder Kaushal)

President, IAUA & VC, VCSGUUHF, Bharsar

FINANCE, BUDGET AND AUDIT REPORT

The main source of revenue of the Association is the subscription from member universities. In addition, the ICAR also provided an assistance of ₹14 lakh for organizing national-level events like Annual Convention, National Symposium and Brain-storming session.

The audited Statement of Accounts for the year 2023-24 is given in **Auditor's Report**. It shows that the **total income** of the Association is ₹ **1,30,75,834** (i.e., ₹ **73,00,000** as membership subscription, ₹ **43,75,574** as interest on FD and saving from the bank), ₹ **14,00,000** as contribution from ICAR and Misc receipts ₹ **260**; **total expenditure is ₹ 91,44,983** at the close of the financial year 2023-24; the Association has **fixed deposits of ₹ 6,77,16,511** (Rupees Six Crore Seventy-Seven Lakh Sixteen Thousand Five Hundred Eleven only).

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2024

<u>PARTICULARS</u>	<u>AMOUNT</u> <u>31.03.2024</u>	<u>PARTICULARS</u>	<u>AMOUNT</u> <u>31.03.2024</u>
Salary (Remuneration of Staff)	2228524	Membership fees & Subscription	7300000
TA/DA	113349	Bank interest	191579
Postage, telephone & Internet	50434	Interest on FD	4183995
Printing & Publication	92949	Grant from ICAR	1400000
Stationery	12110	Misc receipts	260
Office Maintenance	865186		
Computer & Printer Maintenance	39078		
Electricity Charges	116046		
Bank Charges-General	1822		
Newsletter editing	13000		
Vehicle running & maintenance	40386		
Audit fee	14160		
Car Insurance and Services	47825		
47th Vice Chancellor Convention	1200000		
Income tax expense	1133130		
IAUA Awards	214750		
Brain Storming sesion to TAAS	200000		
Honorarium	48000		
Guest house charges	32165		
11th Brain storming session	800000		
12th Brain storming session	800000		
15th National Symposium	800000		
Depreciation	282069		
Excess of income over expenditure	3930851		
	13075834		13075834



DR PARVINDER KAUSHAL
(PRESIDENT)



DR M.S. CHAUHAN
(TREASURER)



DR DINESH KUMAR
(EXECUTIVE SECRETARY)

Auditor's Report:

As per our separate report of even date annexed to the Balance Sheet.

Place, New Delhi

Dated: 18-09-2024

Bhasin Raghavan & Co
Chartered Accountants


FRN 000197N
[Vikram Singh]
Partner
M. No. 093458



UDIN: 24093458 B10A9FC3640

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION
RECEIPTS & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2024

<u>PARTICULARS</u>	<u>AMOUNT</u>	<u>PARTICULARS</u>	<u>AMOUNT</u>
Opening Balance:		Salary (Remuneration of Staff)	2228524
Cash in hand	2405	TA/DA	113349
Cash at Bank	4729279	Postage, telephone & Internet	50434
Bank A/c (Executive Secretary)	410685	Printing & Publication	92949
Fixed Deposit	<u>56908752</u>	Stationery	12110
Membership subscription Received		62051121 Office maintenance	865186
Bank interest-S B A/C,S		7500000 Computer & Printer Maintenance	39078
Interest on FD		191579 Electricity Charges	116046
Grant from ICAR		6807759 Bank Charges-General	1822
Misc. receipts		1400000 Newsletter editing	13000
		260 Vehicle running & maintenance	40386
		Car Insurance and Services	47825
		47th Vice Chancellor Convention	1000000
		Income tax expense	1133130
		IAUA Awards	214750
		Brain storming session to TAAS	200000
		Honorarium	48000
		Guest house charges	32165
		11th Brain Storming session	200000
		12th Brain Storming session	200000
		15th National Symposium	200000
		Advance for 13th Brain Storming session	700000
		Audit fees paid	14160
		46th Vice Chancellor Convention	200000
		Total	7762914
		Closing balance:	
		Cash in hand	6050
		Cash at bank	889778
		Bank A/c (Executive Secretary)	1575466
		Fixed deposit	<u>67716511</u>
			70187805
	<u><u>77950719</u></u>		<u><u>77950719</u></u>



DR PARVINDER KAUSHAL
(PRESIDENT)



DR M.S. CHAUHAN
(TREASURER)



DR DINESH KUMAR
(EXECUTIVE SECRETARY)

Auditor's Report:

As per our separate report of even date annexed to the Balance Sheet.

Bhasin Raghavan & Co
Chartered Accountants


FRN 000197N
[Vikram Singh]
Partner
M. No. 093458



Place: New Delhi

Dated: 18-09-2024

UPIN: 24093458BKAQFC3640

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION
ACCOUNTING POLICES & NOTES ON ACCOUNTS FOR THE YEAR ENDED 31.03.2024

1. General : Accounting policies not specially referred to otherwise are consistent and in consonance with generally accepted accounting principles.
2. Revenue Recognition: The Association has followed the Accrual System of Accounting.
3. Fixed Assets are stated at their written down value. Right of Use Asset i.e. units at International Guest House is carried at Book value and the same is not amortised as there is no specific period of its preferential allotment.
4. Depreciation: Depreciation on Fixed Assets has been provided on written down value method (W.D.V.) as per the rates prescribed as per provisions of the Income Tax Act.
5. Right of Use Assets-Units at International Guest House under Fixed Assets. - Represents the Association contributed amounting to Rs 30.90 lacs towards the cost of the International Guest House (IGH) built by ICAR. Total amount paid is Rs 1 Crore and amount shown is net of Building Fund Received from members Rs 29.10 Lacs and Rs 40 Lacs directly paid by the members Universities. In turn, ICAR earmarked eight rooms in IGH to the Association as preferential allotment to the Association for its use. This contribution is net of Building Fund contributed by the members.



DR PARVINDER KAUSHAL
(PRESIDENT)



DR M. S. CHAUHAN
(TREASURER)



DR DINESH KUMAR
(EXECUTIVE SECRETARY)

Place: New Delhi

Dated: 18-09-2024

Bhasin Raghavan & Co
Chartered Accountants
FRN000197N



[Vikram Singh]

Partner

M. No. 093458

UDIN: 24093458BKA@A 3640



ABBREVIATIONS / ACRONYMS

AI	Artificial Intelligence
AIEEA	All India Entrance Examination for Admission
B. Tech.	Bachelor of Technology
B.Sc.	Bachelor of Science
CAET	Combined Admission Entrance Test
CDSCO	Central Drugs Standard Control Organization
CEO	Chief Executive Officer
CIAE	Central Institute of Agricultural Engineering
COAE&T	College of Agricultural Engineering and Technology
COHS	College of Home Science
CoVS & AH	College of Veterinary Science and Animal Husbandry
DARE	Department of Agricultural Research and Education
Dr NTR CFST	Dr NTR College of Food Science & Technology
DBT	Department of Biotechnology
FNAS	Fellow of Nepal Aquaculture Society
FRM	Family Resource Management
GC-MS	Gas Chromatography- Mass Spectrometry
GKVK	Gandhi Krishi Vigyana Kendra
GoI	Government of India
HoD	Head of Department
Hon'ble	Honorable
HS	Horticultural Science
ICAR	Indian Council of Agricultural Research
ILR	Industrial and Labor Relations
IoT	Internet of Things
KASP	Kompetitive Allele- Specific PCR
KVK	Krishi Vigyan Kendra
LG	Lieutenant Governor
M.Tech.	Masters of Technology
M.Sc.	Master of Science
MBA	Master of Business Administration
MD	Managing Director
ML	Machine learning
MLA	Member of Legislative Assembly
MYMV	Mungbean Yellow Mosaic Virus
NBA	National Biodiversity Authority
NEP	National Educational Policy
NIRF	National Institutional Ranking Framework
NITI	National Institute for Transforming India
NPK	Nitrogen, Phosphorus and Potassium
NRC	National Research Centres
NSP	Non-Starch Polysaccharides

NYC	New York City
ODL	Open and Distance Learning
P&FE	Processing and Food Engineering
PARA	Paralympic
PBG	Plant Breeding and Genetics
Ph.D.	Doctor of Philosophy
PTFE	Polytetrafluoroethylene
R&D	Research & Development
TRPVB	Translation Research Platform for Veterinary Biologicals
VCRI	Veterinary College and Research Institute
w.r.t.	With reference to

NOTES



NOTES





INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

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