



# IAUA NEWS

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## NEW TECHNOLOGIES

### A. CROP and HORTICULTURAL SCIENCES

The Agricultural Universities made earnest efforts to develop new technologies in Crop and Horticultural Sciences, which included varieties/hybrids; machines and equipment; products and processing; and package of practices as given below:

#### VARIETIES/HYBRIDS

#### Birsa Agricultural University (BAU), Ranchi

##### Linseed

##### Birsa Tisi 2 (BAU 14-09)

- Open pollinated variety, suitable for rainfed conditions of Jharkhand.
- Flower blue, bold capsule; maturing in 128-129 days; average yield 13-14 q/ha; yield potential 19-20 q/ha; oil content 42-43 %.
- Resistant to rust, moderately resistant to wilt, powdery mildew, alternaria blight and bud fly.



#### Punjab Agricultural University (PAU), Ludhiana

##### Sorghum

##### Sorghum SL 46

- Dual purpose, late maturing variety which comes to 50 per cent flowering in 93 days.
- Resistant to red leaf spot and moderately resistant to zonate leaf spot diseases and shoot fly.

- Suitable for value addition like popping and flour products. The grains have high iron and zinc.
- It has better fodder nutritional quality especially the crude protein and *in-vitro* dry matter digestibility, and low HCN content.
- Green fodder yield 689q/ha; and seed yield of 7.4q/ha.
- Recommended for Punjab.

##### Maize

##### Maize PMH 14

- This single cross hybrid has tall plants with broad and erect leaves.
- Tassel is semi-open and medium.
- Ears are long, medium placed with yellow-orange flint capped grains.
- Average grain yield is 24.8q/acre and matures in 98 days.
- Recommended for Punjab.

##### Sweet orange

##### Vaniglia Sanguigno

- The sweet orange variety Vaniglia Sanguigno is an early maturing variety, which matures during mid-October to end-October.
- It has pink flesh with 0.21 per cent acidity.
- Recommended for Punjab.

##### Dragon fruit

##### Red Dragon 1

- It bears fruits from July to November; fruits are oblong with red-green brackets and average weight is 334.2 g/fruit.
- Flesh is dark red embedded with small black seeds.
- Rich in beta carotene (42.91 micro g/ 100 g), phenols (48.33 mg/100 g), flavanols (30.66 mg/100 g).
- Fruits are rich in K, Ca and Mg.
- Recommended for Punjab.



**White Dragon 1**

- It bears fruit from July to November; fruits are oblong with red-green brackets and average weight is 287.32 g/fruit.
- Flesh is white embedded with small black seeds.
- Average TSS is 9.24 with 0.62 per cent acidity.
- Fruits are rich in Fe, Zn, Mn and B.
- Recommended for Punjab.


**Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya (RVSKVV), Gwalior**
**Safflower****RVSAF 14-1**

- Non spiny safflower variety, developed by AICRP on Safflower centre, CoA, Indore; released by CVRC.
- Early in maturity: 126 days.
- Seed yield: 1,792 kg/ha, Bold seed: 5.86 g/100.
- Seed oil percentage: 29-30%.
- It is suitable for Madhya Pradesh.

**RVSAF 18-3**

- Spiny, safflower variety developed by AICRP on Safflower centre, CoA, Indore; released by CVRC.
- Seed yield 17-18 q/ha.
- Tolerant to *Alternaria* leaf spot and wilt diseases.
- Oil content: 33-35%.
- Maturity: 127-132 days.
- It is suitable for Madhya Pradesh.

**Sorghum****CSV54 HB**

- Sorghum CHV54 HB developed at AICRP-Sorghum centre, CoA, Indore.
- CSV54 HB is high biomass variety suitable for rainfed cultivation.
- Early in maturity: 121-127 days.
- Fresh biomass yield: 50 t/ha.
- Dry biomass yield: 25.8 t/ha.

**Raj Vijay Jowar 2357 (RVJ 2357):**

- Sorghum variety Raj Vijay Jowar 2357 developed by AICRP -Sorghum center, CoA, Indore.
- Released by SVRC for cultivation in Madhya Pradesh.
- It is a dual-purpose high yielding variety with grain yield 35 to 43 q/ha.
- It matures in 106-112 days.


**Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu (SKUAST-J), Jammu**
**Maize****Popcorn SJPC 1**

- A promising popcorn composite suitable for maize growing areas of Jammu province notified vide Gazette of India notification No. 1015 dated 06.03.2023.



## University of Agricultural Sciences (UAS), Bengaluru

### Rice

#### MSN 99

- Medium tall (100-110 cm); duration: 115-120 days; grain yield: 2,400 – 2,700 kg/acre; Straw yield: 2,800 – 3,000 kg/acre.
- Strong culm and erect growing habit, favouring close planting with 50-60 hills/sq.mt.
- Medium slender grains with good cooking properties.
- Suitable for sowing in *kharif* (June-July), late *Kharif* (August-September) and Summer (January) in irrigated areas.

#### KMP 220

- Duration: 125-130 days; grain yield: 2,400 – 2,600 kg/acre; straw yield: 2,700 – 3,200 kg/acre.
- Long bold grains with red kernels.
- Suitable for July first to second week sowings while it can be transplanted within first week of August.
- Moderately tolerant to blast disease.

### Ragi

#### KMR 316

- Duration: 100-105 days; grain yield: irrigated: 1,700 – 1,900 kg/acre, rainfed: 1,100 – 1,300 kg/acre; straw yield: irrigated: 1,900 – 2,200 kg/acre, rainfed: 1,500 – 1,900 kg/acre.
- Suitable for *kharif* (June - July) and late *Kharif* (August-September) sowings.
- Green ear heads with long tip incurved fingers.
- Suitable for cultivation in both irrigated and rainfed condition.
- Resistant to blast and foot rot diseases.

### Foxtail millet

#### GPUF 3

- Duration: 85-90 days; grain yield: 600 - 800 kg/acre; straw yield: 700 – 900 kg/acre.

- Semi-compact and oblong shaped inflorescence with oval shaped yellow seeds.
- Moderately resistant to rust and leaf blight diseases.
- Suitable for sowing in both *kharif* (June-July) and Summer (January).

### Proso millet

#### GPUP 28

- Duration: 80-85 days; grain yield: 650 – 800 kg/acre; straw yield: 780 -900 kg/acre.
- Intermediate compact with globose-elliptic shaped inflorescence.
- Oval shaped with golden yellow grain.
- Moderately resistant to leaf blight and resistant to brown spot diseases.
- Suitable for sowing in both *kharif* (June-July) and Summer (January).

### Little millet

#### GPUL 6

- Duration: 85-90 days; grain yield: 600-800 kg/acre; straw yield: 900 – 1,100 kg /acre.
- Compact panicle with archid shaped inflorescence.
- Oval shaped with dark brown grains.
- Suitable for sowing in both *kharif* (June-July) and summer (January).
- Moderately resistant to leaf blight and brown spot diseases.
- Resistant to shoot fly.

### Grain Amaranth

#### KBGA 15

- Duration: 90-95 days; grain yield: 600-700 kg/acre.
- Plant height (170-180 cm).
- Tolerant to leaf rust, phyllody, leaf spot diseases and insect pests.
- Suitable for intercropping and mixed cropping.



## University of Agricultural Sciences (UAS), Dharwad

### Pearl millet

#### VPMH 14 (Hybrid)

- This variety has recorded higher mean yield and dry fodder yield compared to the National check GHB 558.

### Sugarcane

#### SNK 6356 (CoSnk 08101)

- This variety is a non-flowering high yielding (>115 t/ha), rich in sugar (>20%).
- Suitable for early (July-February) planting, especially suitable for Joni Bella/ liquid jaggery production due to low salts and better OAA and storability.

### Safflower

#### DSAF 1 (Annigeri Gold)

- Matures in 125-127 days; average yield: 6.5-7.5 q/acre (17-19 q/ha); oil: 28 per cent.
- This variety is yielding 17% higher yield over popular national check A-1.

## MACHINES and EQUIPMENTS

### UAS, Bengaluru

#### Sugarcane Deskinner Tool

The university developed a sugarcane deskinner suitable for small-scale roadside vendors and consumers. As compared to manual peeling, the developed deskinner requires less time to dehusk the sugarcane of different diameters and the quantity and quality of sugarcane juice is better. Efficient and affordable for small scale traders and consumers.



### Improved Hand Weeder for Row Crops

- Designed for one-foot row spacing crops.
- Suitable for small scale land holdings and for all types of soil.
- Multifunctional: Simultaneous management of weeds, softening of the top soil and opening the furrows between the rows can be done.
- Weeding can be done in large area in a short period.

### UAS, Dharwad

#### Tractor Drawn Inter Row Weeder Cum Motor Operated Fertilizer Applicator

The cost of cultivation is a major concern in mechanized farming. Hence, multi-functional equipment was designed and developed to reduce the cost of operation and time. The weeder equipment is flexible to adjust row spacing and regulates the application rate of fertilizer through DC motor with field efficiency of 92 per cent, the cost of machine will be around ₹ 42,000. It reduces time (60 %) and saves fertilizer (15 %).

## PRODUCTS and PROCESSING

### PAU, Ludhiana

#### Gluten Free Cake Premix

Cake premix was prepared by taking buckwheat flour, chickpea flour, rice flour and plantain flour along with baking powder, corn starch, GMS and sugar. The most acceptable premix was shelf stable at ambient temperature for 120 days. The economics of premix revealed that price of cake premix is not only lower but also nutritionally rich as compared to premixes available in market.

#### Micronutrient Fortified Ready-to-Bake Frozen Potato Paranthas

Iron and zinc compounds can be successfully encapsulated with modified potato starch and maltodextrin by spray drying technique. Addition of encapsulated iron and zinc improved nutritional profile of the frozen

*paranthas*, which can be stored up to 3 months in aluminum laminates and up to 5 months in vacuum packs under frozen conditions.

### Accelerated Aging of Rice

The process was optimized for the accelerated aging of paddy by bath ultrasound treatment and investigated the effects of ultrasonication on the milling and cooking characteristics of rice milled from paddy. The optimized ultrasonication process could be used for the accelerated aging of paddy, and producing rice with quality equivalent to the conventionally aged paddy stored for six months.

### Fruit Lollipops with Edible Wrappers

The fruit lollipops with edible packaging was developed from Kinnow fruit juice. The produced lollipops showed high phytochemical activity in comparison to market lollipops and also contained natural flavours. The lollipops are wrapped in edible wrappers made of starch and whey protein having desirable tensile strength, gas transmission rate and water vapour transmission rate.



Kinnow lollipops with edible wrappers

### UAS, Dharwad

### Eco-Friendly Disposable Handmade Paper Plates from Bagasse Composite

The optimized blend ratio bagasse: sisal: cotton pulp treated with water resistant media produced commercially in varied GSM (140/180/240). The produced paper plates were suitable for dry food items, solid and semi solid foods. Bagasse paper plates were biodegradable, eco- friendly and proved a suitable alternative for non-biodegradable paper plates.

### Functional Apron and Accessories for Crossing/Selfing Activity

Functional clothing kit comprises apron, hand gloves, mask and cap. It is designed and developed for selfing/crossing activity in maize, sorghum and bajra crops. Functional apron is developed in blended cloth with two big pockets with depth and width large enough to hold the materials required for selfing/crossing and two wider belts for tying at the shoulder and back. This functional clothing kit was proven to be comfortable and suitable over the existing practice of wearing a shirt and a cloth wrap.

### PACKAGE OF PRACTICES

#### PAU, Ludhiana

- Management of stemborers, leaffolder and plant hoppers in basmati and non-basmati rice with Ecotin 5% @80 ml and Neem Kavach 0.15% @ 1.0 litre/acre and 0.15 % @ 4.0 litre/acre, respectively under organic and conventional conditions.
- Management of rice stem borer and leaf folder with Takumi 20 WG (flubediamide 20%) @ 50 g/acre in Basmati and non-basmati rice, and with Marktera 0.4 GR (chlorantraniliprole) @ 4 kg/acre in Basmati rice.
- Management of plant hoppers with Orchestra 10 SC (benzpyrimoxan) @ 400 ml/acre and with Imagine10 SC (flupyrimin) @ 300 ml/acre in Basmati and non-basmati rice.
- Management of pink bollworm with Cremit/Natmate 4% Gossyplure and with Proclaim 55G (emamectin benzoate) @ 100 g/acre or Danitol 10 EC (fenpropathrin) @ 300 ml/acre in cotton.

#### UAS, Bengaluru

Following Package of Practices were approved in ZREP-2023:

Integrated management of chilli leaf curl virus disease (ChilCVD) in chilli:

- Plant two rows of Co-FS 29 as live barrier around the main field 40 days before planting.
- Plant 35-day old healthy chilli seedlings raised under 50 × nylon mesh in the centre of silver reflective mulch row.
- Spray imidacloprid 17.8% SL @ 0.5ml/L or Afidopyropen [50G//L@2.0ml/L](#) during 2<sup>nd</sup> and 10<sup>th</sup> week after transplant.
- Spray Seaweed bio molecule LBD-12 (AGFORT/Tomotuff) @ 1.5ml/L of the 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> week after transplant.
- Spray Thiamethoam 25WG @ 0.5g/L during 6<sup>th</sup> week after transplant.

## UAS, Dharwad

### Production Technologies

#### Integrated Weed Management in Groundnut:

Pre-emergence application of Pendimethalin 30 EC + Imazethapyr 2 EC (ready mix) @ 1.0 kg a.i./ha followed by one hand weeding at 25 - 30 days after sowing would be effective in weed management in groundnut.

#### Weed Management in Safflower:

Sulfentrazone 48 @ 105 g a.i./ha + Intercultivation @ 30 DAS was superior in reducing the number of weeds per sq. mt.

### Protection Technologies

#### Management of Fall Armyworm in maize:

Fall armyworm incidence in maize can be effectively managed by spraying Spinetoram 11.7 SC @ 0.5 ml/l or Chlorantraniliprole 18.5 SC @ 0.2 ml/l or Emamectin benzoate 5 SG @ 0.2 g/l of water at 15-20 days after sowing.

#### Bio intensive management of Fall Armyworm in maize:

Fall armyworm incidence in organic maize production can be effectively managed by spraying *Metarhizium* (*Nomuraea rileyi*) @ 2.0 g/l of water at 15-20 days after sowing.

**Management of Alternaria leaf blight and Grey mildew diseases in Bt cotton:** The efficacy of Trifloxystrobin 25% + Tebuconazole 50% (Nativo) in reducing the *Alternaria* blight

(41.82 %) and grey mildew incidence (51.12%) which in turn resulted in significant increase in yield (21.67%) with good quality lint.

**Management of root rot complex and stem borers of soybean:** Seed treatment with Trifloxystrobin 13.28 + Penflufen 13.28 FS @ 1 ml/kg and Thiamethoxam 30 FS @ 10 ml/kg of seeds was superior in reducing the root rot complex (overall average of 4.60%), per cent stem tunneling (overall average of 4.03%) in soybean.

### Technologies for Agro-forestry

#### Cultivation and felling intensity in bamboo (*Bambusa arundinaceae*) plantation:

*Bambusa arundinaceae* is a self-regenerating natural resource where new shoots that appear annually ensure future raw material after mature culms were harvested. In the bamboo plantation, if the culms are not felled, the crowded condition would result in scarcity of space for the new emerging culms and increase competition among them for survival. The number of new culms was significantly higher when 30 per cent felling regime was incorporated when compared to 40, 20 and 10 per cent felling regimes.

## B. ANIMAL and FISHERIES SCIENCES

Various technologies developed in Animal and Fisheries Sciences by the universities are given here.

**Dr Rajendra Prasad central Agricultural University (Dr RPCAU), Pusa**

### New Breeds/Genetic Resources

**Calf Borne through Embryo Transfer Technology:** Under Embryo Transfer Technology programme, a calf with 21 kg body was borne on 08 January 2023. Biological



mother of the calf is Sahiwal T-193 and surrogate mother is cow no.62/14.

### **Maharashtra Animal and Fishery Sciences University (MAFSU), Nagpur**

#### **Purnathadi Buffalo: Nationally Recognized Unique Buffalo Germplasm of Maharashtra**

Purnathadi, a unique buffalo germplasm from Western

Vidarbha of Maharashtra was recently registered as India's 20<sup>th</sup> buffalo breed by Breed

Registration Committee, ICAR, New Delhi with the Accession Number - INDIA\_1100\_PURNATHADI\_01020, in its meeting held on 31 August 2022 at ICAR, Krishi Bhawan, New Delhi. Dr S. Sajid Ali, Assistant Professor, Department of AGB, COVAS, Parbhani along with other co-applicants attended and received the breed registration certificate on 16 February 2023 from Dr BN Tripathi, Dy Director General (Animal Science), ICAR, Dr Abhijit Mitra, Animal Husbandry Commissioner, Government of India, Dr BP Mishra, Director, NBAGR, Karnal and Alka Nagia Arora, Financial Advisor, ICAR at a special function at NASC Complex, ICAR, Krishi Bhavan, New Delhi. The Union Minister of Agriculture and Farmers Welfare, Mr Narendra Singh Tomar participated in the programme online.



Dr S. V. Kuralkar and Dr S. Sajid Ali receiving breed registration certificate

## **TEACHING**

### **Acharya N. G. Ranga Agricultural University (ANGRAU), Guntur**

College of Community Science, Guntur developed the teaching learning materials for early childhood education centres by using low

cost indigenous material for developing various concepts.

### **Dr RPCAU, Pusa**

**Admission of New Students in UG, PG and Ph.D. Programme (2022-23):** In various UG, PG and Ph.D. programmes, 563 students were admitted in the university.

### **PAU, Ludhiana**

New courses introduced under Ph.D. (Biotechnology)

- Plant Molecular Biology: MBB 601 (3+0).
- Plant Omics and Molecular Breeding: MBB 603 (3+0).
- Commercial Plant Tissue culture: MBB 604 (2+0).
- Plant Hormones and Signaling: MBB 607 (2+0).

### **SKUAST, Jammu**

Offline Thesis Viva Voce examination of M.Sc. student Miss Kumari Rashika J-20-M-752 was conducted successfully on 16-03-2023

### **UAS, Bengaluru**

#### **Exposure visit of Students of II B.Sc. (Hons.) Agriculture**

As a part of the course curriculum AEX 211: Communication and Diffusion of Agricultural Innovations. A section student were taken to KVK, Mandya on 08.03.2023 by the course teacher Dr



II B.Sc. (Hons.) Agri. undergone exposure visit to KVK, Ramanagara

M.A. Yashashwini, B section students to KVK, Ramanagara by the course teacher Dr S. Ganesamoorthi, and C section students to



KVK, Mandya by the course teacher Dr C.M. Savitha. The students collected the basic information from the villages on the ongoing programmes of KVKs and development departments.



Visit to progressive farmer  
Niranjan's field in  
Honnanayakanahalli, Mandya

Group interactions and data  
collection by II B.Sc. (Hons.)  
Agri. with the farmers of  
Mandya at KVK, Mandya

### Millets Gallery

Students of IV B.Sc. (Hons.) Agri., Group VIII, organized Millets gallery display at ATIC & Agril. Museum on 23.02.2023 in collaboration with Directorate of Extension, AICRP on Small Millets and Centre of Excellence (Millets) and Department of Agricultural Extension, CoA, UAS, GKVK. The programme was inaugurated by Dr S.V. Suresha, Vice Chancellor, UAS, Bengaluru;



Inauguration of Millet Gallery

### UAS, Dharwad

#### 35 Students trained on 'Food Innovation and Sustainability' at AIT, Thailand

Students learnt the ways to reduce food loss and waste (FLW) along with some case studies. Students also learnt about climate



Group photo of students trained at AIT, Thailand

resilient and smart agricultural system, precision agriculture to industry, lecture on entrepreneurial mind set in agribusiness and trade management, challenges and opportunities for sustainable food loss and waste management, modern technological strategies to boost a sustainable and innovative food system, scholarships and opportunities in AIT, Thailand.

The following (10 credit) describes the topical programme modules:

Food Safety Management Systems and Innovative Hygienic Design (1 credit), Design Thinking and Innovation in Food Production Systems (1 credit), Food Processing Innovation and Laboratory Practices (1 credit), Precision Nutrition and Personalized Health (1 credit), Climate Smart Agriculture (1 credit), Research Design and Methods (1 credit), Organic Agriculture and Certification (1 Credit), Agribusiness Principles, Entrepreneurship, Leadership, and International Markets (1 credit), Farm and Industry visits (1 credit).

#### 45 Students trained on 'Smart Agriculture and Entrepreneurship' at Tampere University, Finland

International House Tampere is part of the Finnish Government's Talent Boost Programme and is funded by the Ministry of Economic Affairs and Employment. They provide Information and advice on moving to and settling in Tampere, looking for a job, studying and entrepreneurship. They can help to accelerate job search plans and study possibilities. Students were taught about the essentials of creativity. The class emphasized on how creativity is a part of entrepreneurship, smart agriculture students gained the knowledge on Data analysis in agriculture. Students were taught about the basics of data analysis, constraints involved and how 64 data analysis in agriculture is the next big thing. They were introduced to HUBS i.e. Tampere Universities initiative to help startups. Beneficial and harmful effects of electromagnetic fields in agriculture, latest

applications and trends in computer science were discussed.

The following (10 credit) describes the topical programme modules:

Elements of AI (1), Data analysis in agriculture (1), Fundamentals of ecommerce (1-2), Smart agrotechnology with living laboratory cases (2), Entrepreneurship and international markets (1-2), Negotiation and leadership issues (1), Smart agri in practice- company and farm visits (2).



Group photo of students trained at Tampere University, Finland

### Foreign Adjunct Faculty (Dr Carsten Montzka)

Dr Carsten Montzka delivered lecture series on Application of RS and GIS in Natural Resource Management held on 16 January to 02 February 2023.



Dr Montzka delivering Lecture

He interacted with students on 18 January 2023. Dr Carsten Montzka visited to Hi-Tech



Dr Montzka interacting with students

Horticulture and interaction with staff. He also conducted practical class on Application of RS and GIS in Natural Resource Management on January 16 to 02 February 2023 at AC, Hanumanatti.

## EVENTS and ACTIVITIES

### Anand Agricultural University (AAU), Anand

#### 19<sup>th</sup> Convocation

The 19<sup>th</sup> convocation of Anand Agricultural University (AAU), Anand was successfully held on 19 February 2023. Shri Acharya



Dignitaries felicitating students with awards

Devvrat, Hon'ble Governor, Gujarat and Chancellor of University graced the occasion with his full-time online presence and Shri Raghavjibhai Patel, Minister of Agriculture, Animal Husbandry, Cow Breeding, Fisheries, Rural Housing and Rural Development, Government of Gujarat graced the occasion. All the awards winning scholars, degree recipients, faculty Deans, university officers, Unit and Sub Unit heads, Heads of Departments, Vice Chancellors and Registrars of various universities, AAU Board Members, Members of the Academic Council, other invited guests, parents, donors of medal and the cash prize, retired university officers/deans attended the convocation.

In his welcome address, Dr K. B. Kathiria, Vice Chancellor, AAU, conveyed his greetings and best wishes to all the successful scholars for their awards as well as degrees. He profusely welcomed Hon'ble Governor of Gujarat, addressing him as a factual and proficient visionary for Indian farming and as a big source of inspiration and Minister of Agriculture and addressed him basically as a farmer who can understand the dedicated work of the agricultural university. After sharing its glorious history, he congratulated the faculty, students, and staff of AAU for getting ICAR



accreditation of constituent colleges and their programs.

During the convocation, 629 students were conferred with their UG, PG and Doctoral degrees cutting across 6 faculties of the universities. Out of these, 54 students obtained their Ph.D. degree while 237 achieved their master's degree. Dr Gautam Patel, Registrar, AAU, formally announced the names of award winners. In all, 31 bright students were bestowed with 58 medals comprising 19 gold medals, 33 gold-plated silver medals and 6 cash prizes across various faculties. AAU faculty members namely Dr D. B. Sisodiya received the Best Teacher Award, Dr R. R. Acharya as the main researcher and Dr M. M. Pandya, Dr N. A. Patel, Dr V. I. Joshi, Dr Jalpa Lodaya as co-researchers received the Best Main Researcher Award and Best Co-Researcher Award, respectively. Best Extension Award was conferred to Dr H. L. Kacha, Senior Scientist and Head, KVK, Dahod.

In his speech, Shri Raghavjibhai Patel, Minister, Government of Gujarat, advised the degree recipients that after getting a degree their responsibility has increased towards the nation's progress in the field of agriculture. He emphasized the use of new technologies like nano fertilizer and mechanization in agriculture. He also mentioned his views about his visit to different research farms and congratulated Vice Chancellor and his team for the research work done by the scientist for the benefit of farmers.

Dr S. A. Patil, former Director, IARI, Former-VC, UAS, Dharwad and Former Chairman, Karnataka Krishi Mission, Government of Karnataka graced the occasion as the chief guest of the function. He started his speech by sharing his views regarding the achievements of the university mentioned in the welcome speech by Vice Chancellor and congratulated him and his team for such great work for the benefit of farmers. He emphasized on increasing food production to satisfy the needs of day by day increasing population of our country.

In his convocation speech, Shri Acharya Devvrat, Hon'ble Governor of Gujarat, felt content with the overall progress and quality deliverables made by AAU in the preceding year. He congratulated the Vice Chancellor and his team for successfully conducting various research trials on natural farming. He urged the younger generation to turn to natural farming as the soil fertility is reducing due to global warming and chemical and urea fertilizers. He informed that integrating livestock with natural agriculture is going to transform Indian agriculture to release multiple benefits in terms of added sustained income to farmers.

At the end of the convocation, Dr Gautam Patel, the Registrar, AAU gave thanks giving address. With the conductance of the national anthem, the 19<sup>th</sup> convocation programme was declared over.

### **Trainings on "Integrated Weed Management"**

Four training programs on Integrated Weed Management were organized at AICRP on Weed Management, B. A. College of Agriculture, AAU, Anand during 10-12 January, 08-10 February, 13-15 March and 20-22 March 2023. Farmers (118) benefited from the trainings about the concept and components of integrated weed management. Dr D. D. Chaudhari, Jr. Agronomist, Dr B. D. Patel, Ex. Agronomist and PI, AICRP on Weed Management, highlighted the different methods of weed management in different crops, organic agriculture and natural farming. Dr V. J. Patel, Professor and Head, Department of Agronomy, BACA, AAU, Anand delivered a special lecture on the identification of weeds and the time and method of



**Participants on Field**



application of different herbicides for the field crops with demonstration. Scientists of AAU delivered lectures on different aspects of weed management, weed management recommendations for different crops, safe use of herbicides, utilization of weeds, etc. in these training programs.

### Traditional Super Food: Millet

International Year of Millet and International Women's Day were jointly celebrated by the Faculty of Food Processing Technology and Bio-Energy and Gender



Inauguration of the workshop

Committee, AAU, Anand on 08 March 2023 at College of Food Processing Technology and Bio-Energy, AAU, Anand. On this occasion a workshop for women on Traditional Super Food: Millet, was organized for AAU girl students, female employees, and *Mahila Mandals* of AAU and Anand city.

The chief guest of the inaugural ceremony of the millet workshop, Mrs Jayaben K. Kathiria, President, Anand Agriculture Mahila Mandal and Dr M. S. Kulshrestha, Chairperson, of the Gender Committee inaugurated the workshop by lightening the lamp and made the workshop open for participants and visitors by cutting the ribbon. All guests were welcomed with flower and millet kits.

The workshop emphasized on the Millet posters and sample identification, the AAU millet based recommended products, the Krishitattva Agritech Pvt. Ltd, millet-based product demonstration and selling, the *rotla*-making demonstration and hands-on training corner for girl students, the millet based recipe competition of Anand city Mahila mandal women and game zone.

Around 350 AAU girl students, 100 Anand city women and 50 university officers and faculty members visited and participated in this workshop. Around 60 Anand city women

demonstrated varieties of delicious dishes made from millet. Appreciation gifts and certificates were given to all participating women in the competition and out of them five were judged winners, and felicitated with certificates and prices by Dr K. B. Kathiria, Vice Chancellor, AAU, Dr M. K. Zala, Director of Research and Dean PG Studies, and Principals of colleges. Mrs Harshila Parmar, Director of Krishitattva Agritech Pvt. Ltd, was honored with a memento as this is a successful start-up from Agri and Food Business Incubator, AAU.

### ANGRAU, Guntur

KVK/Research Centres of the university organized Kisan Melas as given below:

- ARS, Utukuru organized *Kisan Mela* on 19.01.23.
- KVK, Rastakuntabai organized *Kisan Mela* on 25.03.23.
- RARS, Maruteru organized *Kisan Mela* on 29.03.23.

### Agriculture University (AU), Kota

#### 6<sup>th</sup> Convocation of the Agriculture University, Kota

Agriculture University, Kota organised its 6<sup>th</sup> convocation

on 13 March 2023. The Hon'ble Governor of Rajasthan and Chancellor of the University



Shri Kalraj Mishra chaired the convocation and awarded degrees to 434 Bachelors, 86 Masters and 07 Ph.D. students including 23 gold medals for the academic session 2020-21 and 2021-22 in the faculty of Agriculture, Horticulture and Forestry. Hon'ble Governor advised the students that they should apply their acquired knowledge in daily behavior and motivated them to use this knowledge for

society and Nation's development. Prof. S. L. Mehta, former DDG, Education, ICAR, New Delhi and Vice Chancellor, MPUAT, Udaipur was the chief guest. In his convocation address Dr S. L. Mehta emphasized on establishment of Centres of Excellence in genetics and plant breeding, natural resources management, insect-pest monitoring, value addition in fruits and vegetables. On this occasion, Chancellor also released three booklets namely; *Research Highlights 2019-22*, *Organic Farming* and *Millets Production Techniques in Baran District*. Besides, two crop varieties viz., Kota Kabuli Chana 3, Kota Urd 4 were released and Trichoderma Laboratory at ARS, Kota, was also inaugurated. On this occasion Dr A. K. Vyas, Vice Chancellor presented the progress report of the university.

### Winter School

College of Horticulture and Forestry, Jhalawar organized 21 days ICAR Winter School on Recent Advances in Hi-tech Farming, during 04-24 January 2023.



Dr A. K. Vyas, VC, AU, Kota speaking at the inauguration

The training programme was inaugurated by Dr Abhay Kumar Vyas, Vice Chancellor, Agriculture University, Kota. Nineteen participants from different states viz., Sikkim, Arunachal Pradesh, Karnataka, Uttar Pradesh, Jammu, Gujrat, Madhya Pradesh, Bihar and Rajasthan joined this winter school. During the winter school various sessions were conducted on hydroponic cultivation, Hi-tech farming, innovative approaches in horticulture, protected cultivation, soil and pest management, nanotechnology, green house technology, Mushroom cultivation, drone technology, horticulture economics etc., and participants were also exposed to various technological innovations in the field.

### BAU, Ranchi

#### 7<sup>th</sup> Convocation of Birsa Agricultural University Ranchi organized

Birsa Agricultural University, Ranchi organized 7<sup>th</sup> convocation on 6 February 2023. A total of 1,139 students were awarded degrees in undergraduate, post graduate and Ph.D. courses run by the university during the year 2019, 2020 and 2021. Out of the 3 passed out students (One in a year) were awarded the Chancellor's Gold Medal given by the Hon'ble Governor Sri Ramesh Bais. A total of 21 students, including 12 students in the undergraduate and 9 students in the post graduate course of the university, were awarded the title of University Gold Medal by the Hon'ble Governor. For the first time, students of 7 new colleges established under BAU in the last 6 years, were awarded graduation degree and university gold medal. Hon'ble Governor, Shri Ramesh Bais emphasized on encouraging integrated farming system, and suggested that every agriculture graduate visiting 5 villages to understand the conditions, problems and priorities of the farmers and find solutions to ensure regular and sustainable income to the farmers. In the convocation address, Dr Himanshu Pathak, Director General of the Indian Council of Agricultural Research, told the students to dedicate themselves for better work in the society and bring laurels to their institution, village, city, town or province by their contribution.





In the welcome speech, Vice Chancellor of BAU, Dr Onkar Nath Singh urged the students to think of starting self-employment and become job providers instead of running for the jobs.



During convocation, 482 students in B. Sc. (Hons.) in Agriculture, 45 students in B. Sc. (Hons.) in Horticulture, 37 students in B. Tech in Agricultural Engineering, 103 students in B. Sc. (Hons.) in Forestry Science, 45 students in B. Tech. in Dairy Technology, 83 students in B. V. Sc. (Hons.), 50 students in B. F. Sc. (Hons.) and 43 students in Bachelor of Vocational course were awarded the degrees. 90 students in M. Sc. (Agriculture), 20 students in M. V. Sc., 42 students in M. Sc. (Forestry), 13 students in M. Tech. (Agriculture Engineering), 22 students in M. Sc. (Biotechnology) and 38 students MABM were awarded degrees. Under Ph.D. course, 20 students were awarded degree in Agriculture, 1 in Forestry and 4 in Veterinary Science.

### Agrotech Kisan Mela-2023

The BAU, Ranchi organized state level Agrotech Kisan Mela-2023 from 3-5 February 2023. With the central theme Increase in income through agricultural modernization, through 14 sub-themes in latest technology of agriculture, forestry and animal husbandry sciences were displayed in this fair with set up of 150 stalls. The display of advanced



technology of Millets and its 40 value-added processed products were the center of attraction.

The Agrotech Kisan Mela-2023, was inaugurated by the chief guest, Minister of Rural Development and Parliamentary Affairs, Jharkhand, Shri Alamgir Alam. Special Guest, Agriculture Minister, Jharkhand Shri Badal expressed the need for the cooperation of Agricultural University and stakeholders associated with agriculture in the direction of making the state the leading agricultural state of the country. Agriculture Secretary, Jharkhand Mr Abubakar Siddique appealed to the scientists to develop technology suited to small and marginal farmers. In the welcome speech, Vice Chancellor Dr Onkar Nath Singh spoke about the possibility of bringing awareness among farmers and increase in income with the recently developed technologies and other techniques by the university. Director of Extension Education Dr Jagarnath Oraon proposed the vote of thanks. Horticulture show cum exhibition was also organized in the fair. Vegetables, spices, fruits, plants with flowers in pots, leafy plants in pots, cut flowers, preserved fruits, other than only gardeners and students were displayed in different sections.

Live demonstration of the application of drone technology on the standing *rabi* crops was also organized for the farmers during fair in the Agricultural Technical Park.

Second day, more than thousands of women farmers of the state participated in the Mahila Krishak Goshthi. During seminar, women agricultural experts Dr Manigopa Chakraborty, Dr Rekha Sinha, Dr Aarti Bina Ekka and Dr Swati Sahay informed about the latest techniques developed in the agriculture sector for women.

Second day, animal-bird exhibition was also inaugurated by the chief guest MLA, Khijri Mr. Rajesh Kachhap. He emphasized on rearing at least one pair of cows to the farmers with less holdings. Vice Chancellor, BAU Dr Onkar Nath Singh, Dean Veterinary Dr Sushil Prasad and



Dean PGS Dr M. K. Gupta highlighted the importance of animal husbandry sector in the state.

In the closing ceremony on 5 February 2023 the chief guest Speaker, Jharkhand Vidhan Sabha Mr Ravindra Nath Mahato emphasized on giving more respect to the farmers, linking them with agricultural science and quick resolution of their farming obstacles and problems. He released Hindi magazine *Pathari Krishi* and honored farmers for their excellent agricultural work. In the presidential address, Vice Chancellor Dr Onkar Nath Singh highlighted on the central theme of the fair.

During prize distribution ceremony, the chief guest, Mr CP Singh, Former Speaker, Jharkhand Assembly and MLA, Kanke Mr Samrilal honored more than 300 men and women farmers and others for their excellent work and exhibition. Women farmer Smt Shilvanti Mundu of Govindpur village, Karra block, Khunti district was specially awarded for excellent achievements in millets crop Ragi.

More than one lakh women and men farmers from all the districts of the state participated in the fair.

### **MAITRI Training Program under National Gokul Mission**

Ranchi Veterinary College of the BAU organized 30-days MAITRI training programme under Gokul Mission. A total of 57 trainees from Ranchi, Bokaro, Giridih, Godda, Hazaribagh, Khunti, Lohardaga and West Singhbhum districts participated in this programme organized in February and March, 2023.

A total of 300 trainees received training in eight programmes so far in the year 2022-23. The trainees were given information about artificial insemination, breed improvement, vaccination, animal feed, ration balancing, animal health and housing etc.

### **Dr RPCAU, Pusa**

#### **3<sup>rd</sup> Convocation of Dr RPCAU**

The 3<sup>rd</sup> Convocation of the university was organized on 28 February 2023 to award degree to 635 students of UG, PG and



Ph.D. programmes. The event was graced by Sri Narendra Singh Tomar, Minister of Agriculture and Farmers' Welfare, Sri Kailash Chaudhary, State Minister of Agriculture and Farmers' Welfare, Government of India; Members of Parliament-Sri Ajay Nishad, Smt Vina Devi, Sri Rampriti Mandal, Sri Prince Raj; Secretary, DARE and DG ICAR, Dr Himanshu Pathak and Dr P.K. Mishra, Chancellor, Dr Rajendra Prasad Central Agricultural University, Pusa. The National flag was also installed in the University Headquarter campus on this occasion.

#### **Kisan Mela**

The University Kisan Mela on the theme Natural Farming and Nutri-Cereal Cultivation for Farmers Prosperity, was organized at RPCAU, Pusa



**Inauguration of Kisan Mela**

campus during 23-25 February 2023. The Mela was inaugurated by Dr Rameshwar Singh, Vice Chancellor, BASU, Patna in presence of Dr P. S. Pandey, Vice Chancellor, RPCAU, Pusa along with various dignitaries. During the Mela, about 178 stalls demonstrating the technologies and products of the University, Government agencies and Private sector from various parts of the country were displayed. The Kisan Mela was attended by 5,065 registered farmers.

- **The Academic Council meeting** was held on 21 January 2023 to discuss and finalize the policy for improvement in academic activities.

- **The meeting of Board of Management** was held on 25 January 2023 to consider the recommendation of different statutory bodies for smooth functioning of the University.

- **Republic Day Celebration:** The National Flag hoisting ceremony was observed on the Republic Day i.e. 26 January 2023 to mark the adoption of the Indian constitution.



On this occasion, various awards were distributed among the students of different schools and colleges of the university for their performance in parade and cultural programme. Besides, different schools and colleges were also awarded for display of their activities and achievement.

- **International Year of Millets (IYoM):** On the occasion of new year 2023, the celebration for International Year of Millets (IYoM) was inaugurated by the Vice Chancellor, Dr P. S. Pandey, on 01 January 2023. The function was attended by all Deans, Directors, heads of departments, faculty members, non-teaching staff and students of RPCAU. On this occasion, different types of Millets (finger millet, foxtail millet, barnyard millet, proso millet, little millet, kodo millet, brown top millet), their value added products (madua ladoo, thekua, mathri, sakarpara, sweet and salty biscuits, multigrain aata, sawan kheer, etc.) and publications related to millets were displayed.

- **Training:** A 26-day skill development training programme (sponsored by the Ministry of Agriculture, Government of Bihar) of Farm Machinery Services and Maintenance Technician for 14<sup>th</sup> and 15<sup>th</sup> Batch was organized from 2-27 February 2023.

- ICAR sponsored Winter School on Innovative Approaches to Agripreneurship: Ideation to Implementation, was organized from 7-27 January 2023 by School of Agri-Business and Rural Management.
- National Symposium on Climate Change and Plant Diseases and Zonal Meeting (Eastern Zone) of Indian Phytopathological Society was organized on 23-24 January 2023 in offline/online mode with participation of more than 100 scientists during the event.

### Dr YSRHU, Venkataramannagudem

#### AICRP Workshop

Dr YSRHU- Cashew Research Station, Bapatla and ICAR-Directorate of Cashew Research (ICAR-DCR),

Puttur jointly organized the Annual Group Meeting of AICRP on Cashew- 2022 at Dr YSRHU- Horticultural



Annual Group Meeting of AICRP on Cashew- 2022

Research Station, V. R. Gudem from 19-21 January 2023. Dr A. K. Singh, DDG, ICAR, New Delhi, Dr V.B. Patel, ADG, ICAR, New Delhi; Dr T. Jankiram, Vice Chancellor, Dr YSRHU; Dr Dinakar Adiga, Director and Project Coordinator, ICAR-DCR, Puttur; Dr L. Naram Naidu, Director of Research, Dr YSRHU and scientists from different AICRP Cashew centers across the country attended the programme.

#### Trainings

International training on Processing and Product Preparation in Cut Flower Sector, was conducted with 10 participants from NGO – Society for Bright Social Services (SBSS), Dhaka, Bangladesh at Dr YSRHU - College of Horticulture, Department of FLA, Dr YSRHU-KVK, VR Gudem and Dr YSRHU – CRS, Tirupathi from 7-16 March 2023.

Hands on training was held on different methods of drying and preparation of products with dried flowers like book marks, greeting cards, wall mats and resin based dry flower products such as key chains, paper weights and dry floral ornaments like pendants, bangles and earrings, preparation of variety of floral garlands, veni, gajra and floral ornaments with fresh flowers, nursery practices and propagation techniques at Kadiyam; and on preparation of mosquito repellants, Dhoop sticks, Moisturizers and Mojitos with flowers, bee wax and honey. Different styles of Ikebana Flower arrangements demonstrated by Sri Hema Patkar a renowned ikebana artist from Hyderabad. Hands on training was given on different flower arrangements i.e., Ikebana flower arrangement and free style arrangement with the use of cut flowers, fillers and local available plant materials for the natural appearance in the arrangement.

Training classes on rose water extraction from *Rosa damacena*, rose gulkand preparation, natural floral soaps with essential oils from flowers and feed preparation from flower waste and its uses for improving the egg yolk color in chicken were organized.

Interaction meet and certificate distribution by Sri Kakani Govardhan Reddy, Minister for Agriculture, Cooperation, Food Processing and Marketing, Government of Andhra Pradesh at his camp office at Vijayawada, to the trainee participants were held on 15.03.2023 in the presence of Dr T. Janakiram Vice Chancellor and Dr E. Karuna Sree, Director of Extension,



**International training on Processing and Product Preparation in cut flower sector**

Dr YSRHU and Mr Feroj Al Mamoon, Dy. Secretary, Ministry of Commerce, Bangladesh.

### Management Development Programme

Dr YSRHU- KVK, Venkataramannagudem organized 10- day Management Development Programme, for the newly recruited Senior Scientists from

Jabalpur, Madhya Pradesh as a part of 2<sup>nd</sup> phase training

organized by the NAARM, Hyderabad, attached to the award winning KVK from 16-25 February 2023. Dr E. Karuna Sree Principal Scientist and Head along with the team of scientists and staff coordinated the programme. Participants gained knowledge on dry flower technology, different pack house operations and processing of fruits and vegetables, and during exposure visit proceeded to farmers' fields in oil palm in Telikicherla village and honeybee rearing in Tirumalampalem village.



**Trainees with Dr Jankiram, VC, Dr YSRHU**

### Webinars

- On 24 January 2023, Dr YSRHU- Farmers Advisory Cell in collaboration with ICAR-IIMR, Hyderabad, organized a webinar on Millets as Superfood, as part of



schedule of International Year of Millets 2023. Dr T. Janakiram, VC, Dr YSRHU was the Chairperson and Dr C. V. Ratnavathi, Director, ICAR-IIMR was the special guest. Dr M Raghavendra Reddy, Scientist (SS&AC), KVK, Venkataramannagudem acted as resource person and explained Millets utilization- The fall and rise, to the



attendees. Dr E. Karuna Sree, Director of Extension, Dr YSRHU coordinated the programme.

- Dr YSRHU-HRS-Kovvur, and Farmers Advisory Cell (FAC), Dr YSRHU organized a National webinar on Banana processing, Value Addition and Entrepreneurship development, on 21 February 2023 as a part of Dr YSRHU Year of Banana 2022-23. Dr T. Janaki Ram, Vice Chancellor, Dr YSRHU; Dr R. Selvarajan, Director, ICAR-NRC Banana, Trichy; Dr Prakash Patil, Project Coordinator, ICAR-AICRP on Fruits; Dr L. Naram Naidu, Director of Research; Dr E. Karuna Sree, Director of Extension, Dr YSRHU explained about the scope for promotion of banana processing and value addition in Andhra Pradesh with special reference to banana growing districts like West Godavari, East Godavari, Dr B.R. Ambedkar Konaseema, YSR Kadapa, Annamayya, Chittoor and Ananathapur. Dr Suresh Kumar, Principal Scientist (Hort.), ICAR- NRC, Banana, Trichy, Dr R. Sudhakar, Chief Technical Officer (Retd.), ICAR-CTRI, Rajahmundry, participated in the programme as resource persons and presented various processing technologies and equipment. Progressive enterprises in banana fiber Shri A. S. S. N. Murthy, Proprietor, Sri Sai Datta Fibers and Paper Products, Ravulapalem, East Godavari, A. P. and Smt M. G. Krishna Veni, FISI World, Komarajulanka, East Godavari, participated and explained about their success in this field. Dr G. Ramanandam, Principal Scientist (Hort.) and Head coordinated the programme. Dr K. Ravindra Kumar, Senior Scientist (Hort.), Dr A. Snehalatha Rani, Senior Scientist (Plant Pathology) and Dr Ch.S. Kishore Kumar, Senior Scientist (Plant Pathology) conducted interaction and discussions with



scientists, farmers and horticultural officers.

## GADVASU, Ludhiana

### Pashu Palan Mela

Pashu Palan Mela of GADVASU was inaugurated by Dr S.S. Gosal, Vice Chancellor, PAU, Ludhiana on 24 March 2023. Mela was organised on the theme Eco-Friendly Livestock



Farming, so that not only all living beings can survive together on earth but also complement each other's living. GADVASU showcased all its research, education and extension programmes at the Pashu Palan Mela for the benefit of livestock farmers. The two-day event provided a platform for farmers, scientists, extension workers, Dairy officers, Fodder and Fisheries officers, various veterinary pharmaceuticals and agribusiness firms and banking sectors for sharing their experience and information about the latest knowledge, technologies and schemes which has come up in the livestock sector.



Progressive Farmer S. Khushwant Singh receiving Award (Fish Farming)

GADVASU, conferred Chief Minister awards to four livestock farmers during Pashu Palan Mela. These awards were conferred in a function by Dr S. S. Gosal, Vice Chancellor, PAU. In the buffalo farming category Shri Gurdev Singh, Goat farming category Shri

Balwinder Singh Mann, Fish Farming Category Shri Khushwant Singh, and in Piggery farming category Shri Amandeep Singh were decorated with the award. These awards carry plaque, shawl and citation along with cash.

### Union Cabinet Minister Releases the Policy Papers

The policy papers on Trans-boundary Viral Diseases of Livestock- Foot and Mouth Disease (FMD), Lumpy Skin Disease (LSD) and African Swine Fever (ASF) and Leptospirosis- A Neglected



Shri Parshottam Rupala, Union Cabinet Minister and Dr D. V. R. Prakash Rao

Disease, were released by Shri Parshottam Rupala, Union Cabinet Minister of Fisheries, Animal Husbandry and Dairying, Government of India and Dr D. V. R. Prakash Rao, President National Academy of Veterinary Sciences, India on 10 January 2023. These policy papers are based on the scientific deliberations and recommendations of a two-day National Workshop and Brainstorming on Strategy on control and eradication of formidable Trans-boundary viral diseases of Livestock- Foot and Mouth disease (FMD), Lumpy skin disease (LSD) and African Swine Fever (ASF).

### Capacity Building Centre Inaugurated

Shri Jatindra Nath Swain, IAS, Secretary, Department of Fisheries (DOF), Ministry of Fisheries, Animal Husbandry and Dairying, Government



Capacity Building Centre inaugurated at VetVarsity by Shri Jatindra Nath Swain, IAS, Secretary, Department of Fisheries, GOI

of India inaugurated the Capacity Building Resource Center on 07 January 2023 for

Intensive Aquaculture Technologies developed at GADVASU under Pradhan Mantri Matsya Sampada Yojana (PMMSY), in the presence of Shri Sagar Mehra, Joint Secretary, DoF. This centre, established with a total budget of ₹ 139.05 lakh, will serve as a prospective resource for demonstration, capacity building and innovative R&D for up scaling the intensive aquaculture technologies like recirculatory aquaculture and biofloc based aquaculture systems as per regional needs and climate.

### International Workshop on Genome Editing for Food Security and Environmental Sustainability

A five-day International Workshop on Genome Editing for Food Security and Environmental Sustainability, was organized in collaboration with McGill University,



Group photo of participants

Canada, University of Saskatchewan, Canada and Punjab Agricultural University, Ludhiana. The workshop witnessed 19 guest speakers including 09 international and 10 national speakers from McGill University, University of Saskatchewan, University of Calgary, Queen's University, International Maize and Wheat Improvement Center, Mexico, NDRI, IMTECH, Central Institute for Research on Buffaloes and Biotech Consortium India Limited. The workshop offered the participants a hands-on training experience at GADVASU and PAU labs; as well as the opportunity for group discussion with experts under Project Formulations component.

### Advanced Training Program on Animal Reproduction

The ICAR sponsored three weeks advanced training course on Advanced Insights on Theriogenology to Ameliorate Reproductive Health of Domestic Animals, was organized at the Department of Veterinary Gynaecology and



Obstetrics during 18 January to 07 February 2023. This training program was focused at minimizing infertility in dairy animals. Scientists from 12 states/UT (Andhra Pradesh, Assam, Chhattisgarh, Gujarat, Haryana, J&K, Nagaland, Punjab, Rajasthan, Tamil Nadu and Telangana) participated in this program.



Dignitaries Releasing Compendium

### **National Conference on Fisheries and Aquaculture: Ecological Perspective**

Three-day national conference on Fisheries and Aquaculture: An Ecological Perspective was organised by the Indian Ecological Society in collaboration with GADVASU from 22-24 February 2023. In the conference researchers shared inputs on quality, climate smart technologies, diversification, intensification, conservation of aquatic resources, health management, exotics, antimicrobial resistance, one health concerns, food quality/safety, postharvest management, circular bio economy, public awareness, domestic consumption and capacity building of stakeholders with a strong inter-institutional linkage.



Dr Meera D Ansal, Dr Ashok Dhawan, Dr Inderjeet Singh, Dr Ravishankar C.N., Dr Basanta Kumar Das and Dr P.S. Brar

## **Indira Gandhi Krishi Vishwavidyalaya (IGKV), Raipur**

### **Workshop/Seminar**

- Brainstorming Workshop on Small millet for Food and Nutritional Security, organized at IGKV, Raipur.
- Organized three-day workshop cum training programme on comprehensive scheme of studying cost of cultivation of principal crops in India (CS Scheme) from 23-25 January 2023 at IGKV, Raipur (CG).
- Two-day workshop on Personality Development and Career Guidance for Agricultural Engineering Graduates, organized at BRSM CAET&RS, Mungeli in hybrid mode during 20-21 March 2023.
- National Seminar on Spices and Aromatic Crops Prospects and Potential in Chhattisgarh, organized at BTC College of Agriculture and Research Station, Bilaspur during 14-15 March 2023.

## **Junagadh Agricultural University (JAU), Junagadh**

### **Drone Technology Training Programme**

A hands-on training programme on Drone Technology: Future Prospects in Plant Protection' was organized by the Department of Agricultural Entomology, CoA, JAU, Junagadh for 100 students



Drone Technology Training

during 06-07 March 2023. Experts from BASF Agricultural Solutions Global were invited for the training program. This comprehensive training aimed at equipping the students with the knowledge and skills required for operating drone for plant protection activities including aerial spray, field mapping, and pest and disease monitoring. Dr V. P. Chovatia, Vice



Chancellor participated in one of the practical demonstrations and interacted with the students and the experts.

### Workshop on Automation in Food Processing

The Department of Processing and Food Engineering, CAET, Junagadh organized a workshop on Use of Modern Technologies and Automation in Food

Processing, during 05-06 January 2023 in which 148 students and faculties



Automation in Food Processing

participated. The workshop covered fundamental and advance topics on automation in the food packaging industry. Shri Chandubhai Virani, Director, Balaji Wafers Pvt. Ltd, delivered his keynote address during inauguration in the presence of Dr H. M. Gajipara, Director Research; Dr N. K. Gontia, Principal and Dean, CAET and other dignitaries.

### Waste Utilization and Management Workshop

The Department of Renewable Energy Engineering, CAET, Junagadh organized a two-day workshop on Waste Utilization and Management for Energy Generation, during 16-17 February 2023 benefitting 173 students and faculties. The workshop was conducted in hybrid mode covering latest topics on integrated technology options for waste management and promotion of bioenergy. The inaugural ceremony of the workshop was graced by several luminaries, viz., Dr V. P. Chovatia, Vice Chancellor, JAU; Dr N. S. Rathore, former Vice Chancellor, MPUAT and former DDG (Agril. Education), ICAR; Dr B. S. Negi, Former Adviser, MNRE, GoI; Shri D. D. Jagdale, Joint Secretary, MNRE, GoI; Dr S. N. Jha, DDG (Agril. Engineering), ICAR, New Delhi; Dr H. M. Gajipara, Director Research,

JAU; Dr N. K. Gontia, Principal and Dean, CAET, JAU; Dr P. M. Chauhan, Registrar and Dr P. Mohnot, ADR, JAU.



Waste Utilization and Management Workshop

### Jawaharlal Nehru Krishi Vishwavidyalaya (JNKVV), Jabalpur

Following Capacity Building Trainings were organized by the university:

- Hands-on Training on Remote Sensing and GIS software from 03-23 January 2023 at JNKVV Jabalpur.
- Hands-on Training on Spatial data analysis with R and GeoDa from 24 January -17 February 2023 at JNKVV Jabalpur.
- Entrepreneurship Development among the students on Innovative Technologies in Horticulture Production from 13-22 March 2023 at JNKVV Jabalpur.

### MAFSU, Nagpur

#### 45<sup>th</sup> Annual Congress of Indian Society for Veterinary Surgery and National Symposium

The 45<sup>th</sup> Annual Congress of Indian Society for Veterinary

Surgery and National Symposium on Computer Applications to Improve Surgical

Outcomes in Pets and Livestock: Opportunities & Challenges, was organized by Department of Surgery and Radiology, Nagpur Veterinary



Vice Chancellor, MAFSU and other dignitaries inaugurating the Symposium

College, Nagpur during 11-13 January 2023 at Nagpur Veterinary College, Nagpur. The Congress received the overwhelming response from the scientist, academicians, students and field veterinarians, and 582 delegates were present for the event from all over the country. During the congress the deliberations on various topics were delivered in total 15 different sessions during three days.

The inaugural ceremony was chaired by the Dr N. H. Kelawala, Vice Chancellor, Kamdhenu University, Gandhinagar and President, Indian Society for Veterinary Surgery; Dr Prof. (Col.) N. P. Dakshinkar, Vice Chancellor, Dau Shri Vasudeo Chandrakar Kamdhenu University, Anjora, Durg was the Chief Guest of the function whereas the Guest of Honour was Prof. (Col.) Dr A. M. Paturkar, Vice Chancellor, MAFSU, Nagpur. Various awardees of the 44<sup>th</sup> ISVS Congress were felicitated during the inaugural programme. The awards included ISVS fellowships to 3 scientists, Associate Fellowships, Dr Ratan Singh Memorial Award, Dr O. Ramakrishna Memorial Award, Lifetime Achievement awards for excellence in Ruminant Surgery, Anesthesiology, Radiology and Imaging, Orthopedic Surgery, and Wild and Zoo Animal Surgery.

### PAU, Ludhiana

Following events (Kisan Mela, workshop, training) were organized by the university during January-March 2023:

- *Kisan Mela* at Nag Kalan Jahangir (District Amritsar) on 02 March 2023.
- *Kisan Mela* at RRS, Ballawal Saunkhri (District SBS Nagar) on 07 March 2023.
- *Kisan Mela* at RRS, Gurdaspur on 10 March 2023.
- *Kisan Mela* at RRS, Faridkot on 14 March 2023.
- *Kisan Mela* at KVK, Rauni (District Patiala) on 16 March 2023.
- *Kisan Mela* at RRS, Bathinda on 21 March 2023.

- *Kisan Mela* at PAU Campus, Ludhiana on 24-25 March 2023.
- AICRP Workshop 18-20 January 2023 (Department of Floriculture and Landscaping) online mode.
- College of Agriculture organized beekeeping training course for beginners from 13-17 March 2023 at village Shankar and Mansuran District Ludhiana. Twenty-five participants attended each event.

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

### Intercollegiate Sports, Games, Cultural and Literary Meet 2022-23

A total of 570 students including 300 boys and 270 girls from the nine constituent colleges of the University participated in various



events at the Intercollegiate Sports, Games, Cultural and Literary Meet 2022-23 conducted from 04-08 February 2023 at College of Agriculture, Rajendranagar. Boys athletics individual championship was won by Mr G. Shiva Sai from Agriculral College, Sircilla while the girls athletics individual championship was won by Ms V. Suvarna Jadav from Agricultural College, Aswaraopet. Boys games overall championship was won by the College of Agriculture, Rajendranagar. Girls games overall championship was won by the Agricultural College, Aswaraopet.

### All India Inter Agricultural Universities Sports & Games Meet 2022-23

Forty (40) students including 25 boys and 15 girls from the University participated in the 21<sup>st</sup> All India Inter Agricultural Universities Sports & Games Meet 2022-23 organized by Chaudhary Charan Singh Haryana



Agricultural University at Hisar (Haryana) from 20-24 February 2023. Kumari Suvarna Jadhav, Student of B.Sc (Hons) Agriculture from Agricultural College, Aswaraopet won the Bronze Medal in Women's Javelin throw at the sports meet.



### International Year of Millets 2023 Activities

The following activities were conducted by the constituent colleges of the University in connection with International Year of Millets (IYoM):

- Workshop on the Importance of Millets Cultivation and Benefits of Millets in Our Diet, was conducted on 10 February 2023 for the benefit of Teaching and Non-teaching staff, and students at College of Agriculture, Rajendranagar.
- IYoM logo designing competition for students was held on 17 February 2023.
- IYoM Poster making competition for students was organized on 23 February 2023.
- Display of Banner of IYOM in adopted village and awareness programme was conducted on 25 February 2023.

### Nutri Bakers Hub

The Nutri Bakers Hub funded by GoI was established at PJTSAU campus at Rajendranagar and inaugurated on 01 January 2023 as a beginning of celebrations of International Year of Millets 2023. This hub is intended to develop nutritious recipes with millets.



### QRT Meetings of AICRP on Groundnut

Quinquennial Review Team (QRT) for AICRP on Groundnut at RARS, Palem under the Chairmanship of S. K. Sharma, Former Vice Chancellor, CSKHPKV reviewed the research progress of the AICRP Groundnut Scheme at RARS for the period 2017-2021 on 20-21 March 2023. The team included six members from ICAR institutions and SAU's. On the opening day the QRT members visited farmers' field at Gautham Pally, Nagarkurnool to witness the demonstration of latest production technologies undertaken by the Scientists of RARS. Later they took part in Drone spray demo at RARS, Palem and experimental field visits to evaluate the work done programme. This was followed by interaction with the Scientists of the Scheme. On the second day the presentation on achievements of AICRP-Groundnut (2017-21) by RARS, Palem, ORS, Jalgaon and ARS, Rahuri were arranged at the Head Quarter. Registrar and Director of Research, PJTSAU joined the QRT team and participated in the interaction.

### Gen Y: The Game - Changers and Challengers

AgHub in partnership with IKP, Knowledge Park, Hyderabad conducted to a one-day workshop on Building Innovation led Entrepreneurial Pathways for Accelerating Reach to SDGs, on 17 March 2023 at the Auditorium, College of Agriculture, Rajendranagar, PJTSAU. Dr Bandana Katoch, Principal Advisor, IKP Prime delivered keynote address on Building the World We Want: Introducing Lens of SDGs for Sustainable Agriculture and Nutrition for the benefit of faculty and students.

### Building Innovation-led Entrepreneurial Pathways for Accelerating Reach to SDGs

A one-day workshop entitled Building Innovation-led Entrepreneurial Pathways for Accelerating the Reach to SDGs, BIEPAR-23 was organized by AgHub, PJTSAU, Hyderabad in partnership with Global Development



Centre, Research and Information Systems (RIS), New Delhi and IKP Knowledge Park, Hyderabad on 29 March 2023 at University Auditorium, PJTSAU, Hyderabad. The workshop aimed to bring to the T20/G20 platform a stakeholder-driven actionable framework of new innovation-led pathways and accelerate the reach to Sustainable Development Goals.



## SKUAST, Jammu

### Kisan Mela

SKUAST-Jammu organised following Kisan Melas through KVK-Jammu at multiple locations:

Multi stakeholders agriculture cum clinical camp under SCSP Project on

- 28 February 2023 at Laswara. Participants: 315.
- 03 March 2023 at Harsha Dabbar. Participants: 270.
- 09 March 2023 at Chak Avtara. Participants: 250.
- 14 March 2023 at Deoli. Participants: 251.
- 17 March 2023 at Sikanderpur. Participants: 281.



Kisan Melas

### PGR Awareness Camp/Biodiversity Fair

One-day PGR Awareness camp/Biodiversity Fair, was organized by ICAR-NBPGR Regional Station Srinagar at Qazi Morah, Poonch, Jammu & Kashmir on 25 March 2023 in collaboration with KVK SKUAST-Jammu

Poonch. Majority of the population residing in this border district of Jammu and Kashmir are Pahari speaking tribals and the area is famous for Poonch Rajma, painted moth, coarse paddy, etc. One hundred and fifty (150) farmers including women from the villages of Nangali, Bhaincah, Chandak, Khanetar, Kojra, Jhullas, Mangnar and other Panchayats participated in the programme.



“PGR Awareness camp/Biodiversity Fair” organized jointly by ICAR-NBPGR and KVK Poonch

### Trainings

- Organized five-day training programme cum exposure visit in collaboration with ICAR- VPKAS, Almora for tribal farmers of district Rajouri w.e.f. 21-25 February 2023.
- One month certificate course on Hydroponics and Vertical Farming: New Vistas in Smart Agriculture, conducted by SKUAST-Jammu, under Institutional Development Plan (IDP) for Strengthening Institutional Capacities for Delivering Competent Skilled Professionals from 28 February to 27 March 2023.
- Two-week technical training programme organized on Basic Concepts of Radiography and other Laboratory Diagnostic Tests, w.e.f 20 March 2023 to 01 April 2023.
- 12 Internees were sent for International and National training cum internship programme at KANSAS University.

## Tamil Nadu Dr J. Jayalalithaa Fisheries University (TNJFU), Nagapattinam

### 8<sup>th</sup> National Tamil Conference

TNJFU organized the 8<sup>th</sup> National Conference on Agricultural Scientific Tamil jointly with

Agricultural Scientific Tamil Society, New Delhi at the University Auditorium, TNJFU, Nagapattinam on 25-26 February 2023 under the Chairmanship of the Vice Chancellor Dr G. Sugumar. The Vice Chancellor presided over the inaugural ceremony and delivered the inaugural



address. Dr K. N. Selvakumar, Vice Chancellor, Tamil Nadu Veterinary and Animal Sciences University, Chennai was felicitated at the programme, and delivered a special address. Dr K. Ramasamy, Former Vice Chancellor of TNAU, Dr M. Muthamilselvan, Founder of Agricultural Scientific Tamil Society, Dr P. Senthilkumar, General Secretary of Agricultural Scientific Tamil Society and Dr S. Balasundari, Convener and Dean i/c, Dr MGR FCRI, Thalainayeru participated in the inaugural programme.

On the second day, technical sessions were held and former Vice Chancellors of TNJFU and TANUVAS Dr Baskaran Manimaran and Dr C. Balachandran were the guests of honour of the Valedictory function. In the two-day event 400 faculty staff, students and research scholars of TNJFU, TNAU and TANUVAS participated, and presented 576 research articles in Tamil.

### **International Conference iCURE-2023 at MK University**

The Vice Chancellor participated in the International Conference on International Consortium of Universal Research Erudition-iCURE-2023, held at Madurai Kamaraj University, Madurai on 05 February 2023 and delivered a lecture on Research Needs and Trends in Aquatic Environmental Toxicology.



### **National webinar on Taxonomy - An Approach for Exploring Aquatic Bio-diversity**

The National webinar on Taxonomy - An Approach for Exploring Aquatic Bio-diversity, was organized on 20 March 2023. Dr V. K. Venkataramani, former Dean and Adjunct Professor



delivered a special lecture on Principles of Taxonomy, Classical Taxonomical Methods. Dr A. Kathirvelpandian, Senior Scientist, ICAR-PMGFR, Kochi, delivered a special lecture on Molecular Taxonomical Methods: Tools for Resolving Ambiguities in Taxonomy of Aquatic Organisms. Dr R. Saravanan, Senior Scientist, Mandapam Regional Centre, ICAR - CMFRI delivered a lecture on Taxonomy of Hitherto Neglected Marine Taxa. Mr S. Ashok Kumar, Deputy Director, MPEDA, Sub-Regional Division, Thoothukudi, gave a lecture on Implications of Taxonomy in International Seafood Trade.

### **UAS, Bengaluru**

#### **Conference**

University of Agricultural Sciences, Bengaluru in collaboration with Indian Partner Institutions and University of Kassel and University of Gottingen, Germany, as a part of Indo-German collaborative research project, organized the Indo-German conference on Rural-Urban Transitions, at GKVK campus during 01-03 February 2023.

#### **Trainings**

- AICRP on Women in Agriculture organized training programme on Fruits and Vegetable Preservation and its Value Addition in three villages of Shidlaghatta taluk, Chickballapura district at Bodhguru village (2 men and 26 farm women) on 14

February 2023, at Hospete (3 men and 27 farm women) on 21 February 2023 and at Thippenahalli (3 men and 21 farm women) on 23 February 2023.

- AICRP in Women in Agriculture organized three training programmes on Importance of Millets and Demonstration of Value Added Products, on 03, 06 and 13 March 2023 at Basavapatna (20 men and 13 women), Bodhaguru (22 women) and Hospete (2 men and 23 women) villages of Shidlaghatta Taluk, respectively.
- Centre of Excellence for Nutri-Cereals organized five-day Entrepreneurship Development Programme on Processing, Value Addition and Export of Nutri-Cereals (Millets) for Entrepreneur of Assam Sponsored by APART and Commissionerate of Industries & Commerce, Government of Assam from 27-31 March 2023 at Centre of Excellence for Nutri-Cereals, 12 men and 13 women participated in the programme.
- Advanced Python Certificate Training Programme was organized by Institute of Agri-Business Management (IABM), CoA, GKVK, campus during 02-28 January 2023 (27 days) with 100 participants.
- Advanced ESDP Training Programme on Biodiesel Production, was organized by Department of Plant Biotechnology during 28 February to 11 March 2023 (12 days) with 30 participants.

#### **Tribal Sub Plan /SCSP Programmes**

- AICRP on Forage Crops and Utilization, ZARS, V. C. Farm, Mandya in collaboration with Samatha Peoples Education for Development Society, Mysore organized a training programme on fodder crop production technologies and distribution of Seeds of fodder crops, viz., fodder maize variety African Tall, Multi-cut fodder sorghum variety CoFS 29, Drumstick variety PKM 1, fodder tree seeds of Agase and agricultural implements viz., plastic crates, sickles under Tribal Sub Plan

programme to 50 beneficiaries at Dornahalli Colony, Hullalli hobli, Nanjanagud Tq, Mysore district on 13 January 2023.

- AICRP on Nematodes organized training programme on nematode management in horticultural crops and distribution of inputs LED torch, PVC Bandli, Sickle, Salike Hammer, Monkey fork chisel and Pickaxe hammer to 30 beneficiaries at Kurilingayyanadoddi, Magadi Taluk, Ramanagar district, Karnataka on 31 January 2023.
- AICRP on Honey Bees and Pollinators, AINP on Soil Arthropod Pest and AINP on Vertebrate Pest Management organized one-day training programme cum input distribution under Tribal Sub Plan on 17 February 2023 at Rangasamudra, Pavagada taluk, Tumkur. Beekeeping kits, Tarpaulins, Groundnut seeds, farm implements were distributed to 125 beneficiaries.
- AICRP on Farm Implements and Machinery, ZARS, V.C. Farm, Mandya in collaboration with Skill Development Centre, ICAR, ICAR-New Delhi under Training and Capacity Building of ICAR organized five-day training programme on Mechanization in Sugarcane, from 06-10 March 2023 at Zonal Agricultural Research Station, V.C. Farm, Mandya. 15 farmers and 10 farm women participated the training programme.
- AICRP on Seed (Crops) organized training on recent techniques in seed production under Tribal Sub Plan programme and distributed agricultural implements- one tarpaulin, one varavari, one bandli, one sanike and one sickle at Doddahalli village, Pavagada taluk, Tumkur District on 24 March 2023 300 tribal beneficiaries.

#### **World Water Day-2023**

Water and Sanitation - Accelerating Change to Solve the Water and Sanitation Crisis and Field Crops Management in Harangi Command Area,



was organized on 20-21 March 2023 at ZARS, VC Farm, Mandya in collaboration with Command Area Development Authority (CADA) - Water Resources Department, Mysore and Water Technology Centre, ZARS, VC Farm, Mandya. Two-day institutional training programme was organized to mark the occasion in which 50 men participated.

### UAS, Dharwad

#### Krishi Mela- 2023

A three-day Krishi Mela was organized from 01-03 January 2023 in collaboration with the Department of Agriculture at Vijayapur campus of UAS, Dharwad under the theme *Siridhanya Balasi*



Krishimela- 2023 at Vijayapura campus

*Arogya Vrudhisi* (Improve health through use of nutri-millet). Krishimela was inaugurated by Shri Vijugowda Patil, President, Karnataka State Seed and Organic Certification Agency (KSSOCA), Bengaluru. Vice Chancellor of UAS, Dharwad Dr P. L. Patil informed that this Krishi mela is being organized with an objective of providing all the information under one roof to the farmers and farmers should make use of it. Shri Devananda Chavan, MLA, Nagathan constituency presided over the opening ceremony. The Members of Board of Management Shri Y. N. Patil, Shri P. Malleshi, Shri L. S. Ajagannavara, Shri Srinivasa Kotyan and University officials and officers from Development Departments of Districts participated. Totally, 176 stalls of different companies dealing with seeds, pesticide, fertilizer, nursery, home use millets and agricultural machinery, fruit and flower display, various field demonstrations were arranged for exhibition.

### Rabi Field Day and Workshop on Power Efficient Pump Sets

UAS, Dharwad, Krishi Vigyan Kendra, Bagalkot and Karnataka Renewable Energy Development Ltd, Bengaluru organized a Rabi Field day and Awareness



Rabi Field Day and Workshop on Power Efficient Pump sets was organized at KVK, Bagalkot

programme on BEE Star Energy Efficient pump sets and water conservation at KVK, Bagalkot. A total of 200 farmers, students of Basaveshwar Engineering College and DAESI trainees, Sarvodaya NGO, MCX officials participated in the programme.

### Field Day on Rabi Sorghum (SPV-2217)

ICAR - Krishi Vigyan Kendra, Haveri (Hanumanmatti) organized a field day on Rabi sorghum (SPV-2217) at Rahutanakatti village of Ranebennur on 23 January 2023. About 50 farmers participated in field day.



ICAR - Krishi Vigyan Kendra, Haveri (Hanumanmatti) organized field day on rabi sorghum (SPV-2217)

### Field Day on New Varieties of Safflower A 2020 and ISF 764

Agriculture Research Station, Annigeri, ARS, Hombal, AEEC, Gadag and IIOR, Hyderabad jointly organized a field day on new varieties of safflower, A 2020 and ISF 764 at Gojanur village in Lakshmeshwar taluk on 13.02.2023



in the field of Sri. Channabasappa Shanmukhi. About 60 farmers and farm women participated in the field day.

### **Inauguration of DAESI Course at Staff Training Unit**

Vice Chancellor of UAS, Dharwad Dr P. L. Patil requested the Agriculture Input Dealers to suggest recommended pesticides and chemical fertilizers to



**Inauguration of DAESI course at Staff Training Unit, UAS, Dharwad**

farmers and act as a link between the University and the farmers. He was speaking in the inaugural function of a 48-week DAESI programme on 06 January 2023 organized by Staff Training Unit, UAS, Dharwad in collaboration with MANAGE, Hyderabad and Karnataka State Department of Agriculture. He advised the participants to become sincere students of the course for one year and learn all the latest developments in the field of agriculture. Associate Director of Extension and President of the function Dr P. S. Hugar outlined the achievements of DAESI programme. Professor and State Nodal Officer (DAESI), Dr M. Gopala spoke about the procedure to be followed in conducting the DAESI programme. Assistant Director of Agriculture Dr Raghavendra Bammigatti requested the participants to become effective para-extension workers for serving the farming community. Professor and Course Co-ordinator, Dr Sunil V. Halakatti welcomed the guests and Dr S. Devendrappa conducted the programme and proposed vote of thanks. About 40 registered participants from Dharwad, Haveri, Gadag, Uttara Kananda and Belagavi participated in the programme.

### **Workshop on National Mission on Natural Farming**

Climate change is affecting quality and quantity of agricultural produce in recent

times. Only honorable Prime Minister's Dream Project Natural Farming can prevent this naturally said Government of India consultant (Natural Farming) Smt Vandana Dwivedi. She was speaking after inaugurating the One-Day



**Inauguration of National Workshop on Natural Farming organized jointly by UAS, Dharwad, Department of Agriculture and Farmers Welfare GOI and Karnataka State Department of Agriculture**

Workshop on National Mission on Natural Farming organized at UAS, Dharwad in collaboration with Department of Agriculture and Farmers Welfare (INM Division), Government of India, Karnataka State Department of Agriculture on 17 March 2023. Director, National Centre for Organic and Natural Farming, Ghaziabad Dr Gaganesh Sharma was the Chief Guest, and said area under organic farming has expanded from 40 ha to 9 million ha. Thereby organic and natural farming are playing important role in providing quality agricultural produce. Vice Chancellor and president of the workshop Dr P.L. Patil said that 17 technologies related to organic and natural farming were developed in the University and different natural farming programmes are being planned in more than 1000 ha. Department of Agriculture and Farmers Welfare, Government of India, Deputy Secretary (Natural Farming) Smt Rachana Kumar and Associate Directorate of Extension Dr V. S. Patil were present. More than 150 officers from Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Puducherry and Lakshadweep participated in the workshop.

### **University of Agricultural Sciences (UAS), Raichur**

#### **Kisan Mela**

University of Agricultural Sciences, Raichur organized Krishi Mela on the theme Essence of Millets: Basis for Life from 10-12 January 2023



at Raichur campus in collaboration with the Department of Agriculture and allied development departments.

The objective of Mela was to



provide the latest technologies generated in the University through exhibition, demonstrations of technology, literature, interactive sessions, seminars and consultancy by expert scientists to farming community of the Kalayana - Karnataka region.

Krishi Mela theme was Essence of Millets: Basis for Life to commemorate the United Nations declaration of 2023 as International Year of Millets, which is being celebrated across the globe.

The Krishi mela created a platform to the stockholders to promote value in nutri cereals. Krishi Mela was inaugurated by Shri B.C. Patil, Minister of Agriculture, Government of Karnataka on 11 January 2023. In his inaugural address, he called upon the farmers to make the best use of technologies and inputs.

## MoUs

### AAU, Anand

AAU, Anand signed an MoU with Gujarat Institute of Disaster Management, Gandhinagar on 15 March 2023 for Collaboration in Research and Capacity building in Disaster Risk Management.

### ANGRAU, Guntur

The university entered into following MoUs:

- With Reliance Foundation, Mumbai to provide digital solutions to farmers, signed on 10 January 2023.

- With Dhanuka Agritech Private Limited, to promote and accelerate the programs of Academic, Research, Extension and Training of the various stakeholders, signed on 10 January 2023.
- Gayatri Vidya Parishad for Degree and P.G. Courses (Autonomous), Visakhapatnam to develop tribal agricultural practices, signed on 10 January 2023.
- Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu for facilitating students training and Postgraduate research, signed on 02 February 2023.
- AP Innovation Society of Andhra Pradesh for institutional collaboration and promotion of Agri Startup ecosystem in Andhra Pradesh, signed on 04 March 2023.
- With HDFC Bank Limited, Guntur to support agri entrepreneurs, signed on 09 March 2023.

### BAU, Ranchi

Birsa Agricultural University, Ranchi and ICAR-Indian Institute of Agricultural Biotechnology, Ranchi signed an MoU on 27 March 2023 with the aim of promoting mutual cooperation in the academic and research fields. The MoU was signed by Director, IIAB as first party and Registrar, BAU Dr Narendra Kudada as second party and the MoU was exchanged between Vice Chancellor Dr Onkar Nath Singh and IIAB, Director Dr Sujay Rakshit at IIAB, Ranchi.

According to the agreement, both the institutes will cooperate in promoting quality higher education and research in the long run through mutual exchange of students and faculty in education and research activities and sharing of research infrastructure.

### Dr RPCAU, Pusa

A tripartite MoU was signed between Dr Rajendra Prasad Central Agricultural University, Pusa; IoTech, Gurugram and Dronier Aviation, Bihar to set up a Remote Pilot



Training Organization (RPTO) for developing human resource as the Drone Pilot in Eastern India.

### Dr YSRHU, Venkataramannagudem

Dr YSRHU and ICAR-Indian Institute of Millet Research, Rajendranagar, Hyderabad, signed MoU for a period of one year i.e. from 2.03.2023 to 01.03.2024 for promotion of student's trainings, quality post graduate research in cutting edge areas and participate jointly in the projects requiring expertise and logistics from both organizations.



- GADVASU and HiMedia Laboratories Private Limited, Maharashtra signed an MoU on 16 January 2023. The MoU will help in developing Human Resources in the field of Molecular Biology, Biotechnology and Microbiology. There will be exchange of technical knowledge and hands-on-trainings in the future.



Dr Inderjeet Singh, VC, Officers of GADVASU and HiMedia Officials

### IGKV, Raipur

#### GADVASU, Ludhiana

- GADVASU signed Memorandum of Understanding (MoU) with Carus Laboratories, a fast-growing animal healthcare company based in Karnal (Haryana) on 23 February 2023 to award students annually. As part of the MoU, Carus Laboratories pledged to allocate scholarships/awards to the students of the final year of BVSc & AH on the basis of their composite merit (OGPA) in the veterinary clinical subjects, namely medicine, surgery, gynaecology and clinics. The scholarships/awards will be presented to three meritorious students in the oath-taking ceremony of passing-out students. The objective of the MoU is to recognize the hard work and dedication of the students and to motivate them to pursue further studies in veterinary sciences.



Dr J.P.S. Gill, DR, Exchanging MoU Documents

- Indira Gandhi Krishi Vishwavidyalaya, Raipur signed an MoU on 31 March 2023 with Rubber Research Institute of India, Kottayam for Feasibility of rubber cultivation in Chhattisgarh.
- Indira Gandhi Krishi Vishwavidyalaya, Raipur signed an MoU on 20 January 2023 with National Seeds Corporation Ltd. for Production and Marketing of agricultural field crops and horticultural crops.
- Indira Gandhi Krishi Vishwavidyalaya, Raipur, signed an MoU on 20 January 2023 with India Meteorological Department, Ministry of Earth Science, Government of India for improvement of weather forecasting particularly for the Chhattisgarh.
- An MoU between Indira Gandhi Krishi Vishwavidyalaya Raipur, Chhattisgarh State Seed and Agriculture Development Corporation and Federation of Indian FPOs and Aggregators (FIFA), New Delhi, was signed for implementation of SATHI Project in Chhattisgarh State.

### **Kamdhenu University (KU), Gandhinagar**

- An MoU signed between Kamdhenu University (KU), Gandhinagar, Gujarat and Gujarat Technological University (GTU), Ahmedabad, Gujarat for promotion of inter-institutional collaboration including faculty and students research and training on 07-03-2023, for a period of five years.
- An MoU signed between Kamdhenu University (KU), Gandhinagar, Gujarat and National Institute of Pharmaceutical Education and Research (NIPER), Ahmedabad, Gujarat for promotion of inter-institutional collaboration including faculty and students research and training on 20 March 2023, for a period of five years.

### **JNKVV, Jabalpur**

JNKVV, Jabalpur signed an MoU with Jain Irrigation Pvt. Ltd, Jalgaon, Maharashtra.

### **MAFSU, Nagpur**

Dr Shirish V. Upadhye, Dean (Vet); Dr Nitin V. Kurkure, Director of Research, MAFSU, Nagpur and Dr Ravindra J. Zende, Professor and Head, VPH and Principal Investigator, NAHEP-CAAST-MAFSU project, MVC, Mumbai visited Penn State University, Pennsylvania and Texas Tech University, Texas, USA during 2-16 February 2023 for signing Letter of Intent/MoU between Texas Tech University and MAFSU for developing collaborations for research and student and faculty exchange programs between these two Universities.



Signing of MoU between Penn State University (PSU) and MAFSU

### **PAU, Ludhiana**

The university signed MoUs with following industry partners:

- Sun Energy Power Engineering Corp., Farid Nagar, Nankaniana Road, District-Sangrur-148001, Punjab for Paddy Straw Based Biogas Plant made up of Mild Steel Sheet (Above the Ground) on 05.01.2023.
- Mr Tirath Singh, VPO- Mohamedpur, Block-Sherpur, Distt. Sangrur 148020, Punjab for PAU fixed Dome Type Family size Biogas Plant having capacity from 1 m<sup>3</sup>/day to 25 m<sup>3</sup>/day, on 09 January 2023.
- Mr. Sohail Mondal, Vill. Rajpur, PO Bhaitbari, PS Phulbari, Distt. West Garo Hills 794104, Meghalaya, for Sugarcane Juice Bottling Technology, on 31.01.2023.
- M/s the group of Vardhman Family, Gana-Vanshkhia Road, Gana, Anand 388345, Gujarat for Modified PAU fixed Dome Type Janta Model Biogas Plant having capacity from 25 m<sup>3</sup>/day to 500 m<sup>3</sup>/day, on 31 January 2023.
- Vishivkarma Solar Energy Corporation (Registered), G.T. Road Bye Pass, Phillaur, District Jalandhar 144410, Punjab for Evacuated tube collector solar dryer employing conventional evacuated tubes, on 24.02.2023.
- Khalis Fertilizer & Seed Farm (KFSF), H. No. 1, Virk House, G T Road, Village -Patti Jhamra, Tehsil-Shahabad Markanda, District-Kurukshetra 136135, Haryana for Maize Hybrid PMH 14, on 22 March 2023.
- M/s Spectron Engineers Private Limited, 129, Andheri Industrial Estate, Off Veera Desai Road, Andheri (W), Mumbai 400053 for Modified PAU fixed Dome Type Janta Model Biogas Plant having capacity from 25m<sup>3</sup>/day to 500m<sup>3</sup>/day, on 28 March 2023.
- M/s Spectron Engineers Private Limited, 129, Andheri Industrial Estate, Off Veera Desai Road, Andheri (W), Mumbai 400053 for Paddy Straw Based Biogas Plant made

up of Mild Steel Sheet (Above the Ground),  
on 28 March 2023.

### **PJTSAU, Hyderabad**

The PJTSAU signed MoU's with the following institutes / organizations:

- Srivarsha Enterprises, Hyderabad to utilize the technology for processing Jowar flour developed by Millet Incubation Centre, Rajendranagar by paying license fee.
- Nutraken Innovations Pvt. Ltd, Hyderabad, a startup proposed to utilize the technology for processing Jowar flour developed by Millet Incubation Centre, PJTSAU by paying License fee fixed by PJTSAU for millet technologies for a period of three years.
- ICAR, Indian Institute of Oilseeds Research, Rajendranagar for promotion of students' training and quality postgraduate research in cutting edge areas.

### **RVSKVV, Gwalior**

The university signed an MoU on 28 March 2023 with Bioversity International, Rome, Italy for Mainstreaming agricultural biodiversity conservation and utilization in agricultural sector to ensure ecosystem services and reduce vulnerability.

### **SKUAST, Jammu**

The university signed following MoUs:

- Kansas State University, USA on 18.08.2022.
- Himalayan Forest Research Institute Panthaghati, Shimla on 26.08.2022 for 5 years.
- IPB University, Bogor, West Java, Indonesia on 14.09.2022 for 5 years.

### **TNJFU, Nagapattinam**

The university has signed MoUs as given below:

- A Memorandum of Understanding (MoU) was signed between Scientific Instruments Corporation of India Pvt. Ltd, Varanasi and

TNJFU on 12 January 2023 at University Headquarters, Nagapattinam for collaboration primarily for the startup activities in seaweed farming in the Mandapam region in the Ramanathapuram District of Tamil Nadu. This partnership will enhance the efficiency of finding out the innovations/innovative business ideas in seaweed farming and products incorporated with seaweeds.

- On 30 January 2023, an MoU was signed between TNJFU and Guru Nanak College (Autonomous), Chennai for 3 years. This MoU is aimed at developing institutional collaboration in education and research for the benefit of faculties and students in both organizations.



- An MoU was signed on 07 February 2023 between TNJFU and ICAR – National Bureau of Fish Genetic Resources, Lucknow for collaborative research towards advancement in scientific knowledge for the benefit of society at large. This MoU will also facilitate staff and student research in the field of fish genetics.

### **UAS, Bengaluru**

The university signed following MoUs with different partners:

- MoU for Technology Sale Agreement with Action Aid Association, Bengaluru on 06 January 2023.
- MoU for collaborative Research, Academic and exchange of faculty, students and pedagogical staff with University of Greenwich, UK on 11 January 2023 for 5 years.



- For collaborative PG Research and Student's Trainings with ICAR-National Institute of Abiotic Stress Management, Baramati, Pune on 27 January 2023 for 5 years.
- MoU for joining the team of Shodhaganga / Shodhagangotri to get Indian Electronic Thesis access with Information and Library Network Center, Gujarat on 23 January 2023.
- Technology Sale Agreement- University developed technology for production of enriched gluten free cookies, low fat foxtail, millet biscuit with WPC, etc. with Ms. Amrutha, K.N. Malladihalli Post, Holalkere Tq, Chitradurga District on 13 February 2023 for 5 years.
- For collaborative Teaching, Research and Extension activities and student/faculty exchange programme with Central Silk Board, Bengaluru on 25 February 2023 for 10 years.
- Agreement for licensing of Maize Hybrid MAH 14-5 of UAS-B for commercialization with Univeg Seed Technologies Pvt Ltd, Hyderabad on 25 February 2023 for 3 years.
- MoU for study of seasonal variation on bioactive compounds of Panchavalkal -05 Medical Plants used in Ayurveda with Central Council for Research in Ayurvedic Sciences (CCRAS), New Delhi on 06 March 2023 for 2 years.

### UAS, Dharwad

- An MoU between UAS, Dharwad and Watershed Development Department, Bengaluru, Government of Karnataka, was signed on 17 March 2022 for five years. The purpose of this world bank assisted program Rejuvenating Watersheds for Agricultural Resilience through Innovative Development (REWARD) is to provide technical services as partner institute to take up land resource inventory (LRI) and Hydrology activities.

- An MoU between UAS, Dharwad and KAPPEC, Bengaluru was signed on 10 March 2023 for five years for Establishment of incubation facility at ICAR-KVK-II, Indi, Vijaypur, UAS, Dharwad.

Besides, the university also signed MoUs with following industries:

- M/s Jain Irrigation Systems Limited (JISL), Jalgaon, Maharashtra.
- Mallipathra Nutraceuticals Pvt. Ltd., Bengaluru.
- Manjunath R., Future Biotech, Dharwad.
- B & C Agri Solutions LLP, Dharwad.
- Ramashree Bionest Pvt. Ltd, Vijayapur.
- Aspartika Biotech Pvt. Ltd, Bengaluru.
- Deshpande Foundation, Hubli.
- Krimmi Biotech LLP, Bengaluru.
- AVT Natural Products Ltd, Chennai.
- HA EGL Technologies Pvt. Ltd, Dharwad

## IPR

### BAU, Ranchi

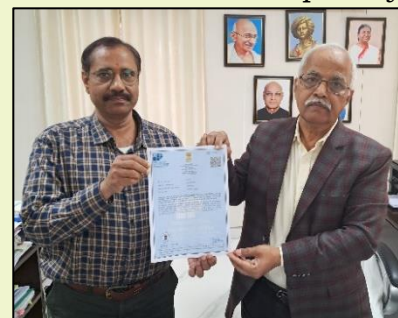
#### Patent for Herbal Formulation Birsol

The Herbal Formulation 'Birsol' developed by Dr Kaushal Kumar,

Department of Forestry Products and Utilization, Faculty of Forestry, BAU, Ranchi, was awarded a patent certificate Patent

No. 422100 issued by the Intellectual Property Office, GoI on 16 February 2023.

The herbal formulation Birsol is extremely beneficial for the skin along with relieving joint inflammation and pain externally and much more beneficial in common joint pain as



BAU Vice Chancellor, Dr O. N. Singh and BAU Scientist showing Patent Certificate

compared to medicines available in the market. Products like balm, lotion, spray and cream can be prepared from this herbal formulation. It will be shortly available in the drug market by the name of BAU Birsol.

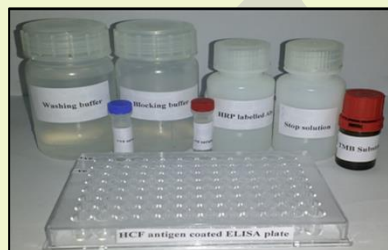
### Dr RPCAU, Pusa

- **A Power Driven Device for Shelling and Hulling of Grains:** Patent Number- 417406, date of granting 10 January 2023
- **Multi - Crop Seeder:** Patent Number- 425659, date of granting 17 March 2023.

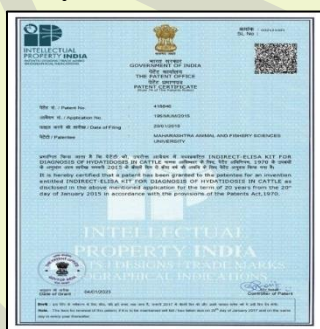
### MAFSU, Nagpur

#### Patent for ELISA

Indirect-ELISA kit for diagnosis of Hydatidosis, a parasitic zoonotic disease in cattle, developed by MAFSU, Nagpur under ICAR sponsored research project entitled Outreach Programme of Zoonotic Diseases. The Patent Office, Intellectual Property India, Government of India granted a patent for 20 years on dated 04 January 2023 (Patent No.416846) to Maharashtra Animal and Fishery Sciences University for this research work. This research was conducted at Department of Veterinary Public Health, Mumbai Veterinary College, Parel, Mumbai and in the success of the said research, Dr Vilas M. Vaidya, Assistant Professor and Principal Investigator, Dr Ravindra J. Zende, Professor and Head of the Department; Dr Ashish M. Paturkar, Vice Chancellor, MAFSU; Dr Ashok Kumar, Assistant Director General, ICAR, and



Indirect-ELISA Kit for the diagnosis of Hydatidosis in cattle



Certificate of patent

Dr Charushila K. Raut, Senior Research Fellow has made valuable contributions.

#### Patent on Retail Chicken Slaughter Unit for Hygienic Meat Production

MAFSU, Nagpur, Mumbai Center has developed Retail Chicken Slaughter Unit for production of clean and hygienic meat that reduces the



chances of meat spoilage hence checks disease outbreaks. The unit developed under ICAR sponsored All India Co-ordinated Research Project on Post Harvest Engineering and Technology. The Patent Office, Intellectual Property India, Government of India granted a patent on Retail Chicken Slaughter Unit (Patent No. 420269) for 20 years on dated 02/02/2023 to MAFSU for this research work. This research was conducted at Department of Veterinary Public Health, Mumbai Veterinary College, Parel, Mumbai and in the success of the said research, Dr Ravindra J. Zende, Professor and Principal Investigator; Dr Vilas M. Vaidya, Assistant Professor and Co-Principal Investigator, Dr Ashish M. Paturkar, Former Vice Chancellor, Maharashtra Animal and Fishery Sciences University and Dr Dinesh Chavhan, Scientist, has made valuable contributions.

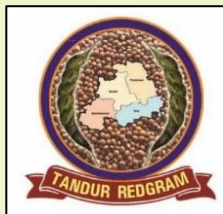


### PAU, Ludhiana

- Flour composition of gluten free food grain. Patent No: 421209; Date of grant: 10/02/2023.
- Molasses based microbial fertilizer and method thereof. Patent No: 423627; Date of grant: 01/03/2023.

**PJTSAU, Hyderabad****Geographical Indication (GI) Certificate to Tandur Redgram**

Presentation of GI Certificate to the primary applicants (YFPCL) and felicitation to the individuals who helped in obtaining GI Tag to Tandur Redgram, was organized at Agricultural Research Station Tandur on 31 January 2023 in the presence of Ministers for Agriculture and Education, other people representatives, Vice Chancellor, University Officers and Scientists of ARS, Tandur.

**UAS, Raichur**

- Chitosan Iron Oxide Coated Sand Filter Bed for adsorption of sulphate and nitrate from milk processing industrial waste water and a method thereof: Patent No.391819, date 11.03.2022.

Filter bed was developed by calcination at 400°C, including 0.6 M iron-oxide nano-adsorbent. The maximum % RE sulphate and nitrate were 92.02 and 85.34. Optimized process parameters are 0.6 M iron oxide coating dosage, 160 and 70 min contact time, 6 pH and 50 and 5 mg/L initial sulphate.

- Chitosan Graphene Oxide Coated Sand (CGOCS) Filter Bed for the Removal of Phosphate from waste water and a Method Thereof: Patent No. 426027, dated 21/03/2023.

Process technology for CGOCS filter bed was developed and it was found that, 0.2 M is optimized GO concentration for coating. Surface morphology and elemental compositions of CGOCS resulted in significantly rough surface and larger cracks. Carbon particulate matter of 58.68% was found on the surface. High intense XRD peaks were merged and matched exactly at 2-theta angle of 27.01°,

and it was confirmed that GO is presented on the activated sand surface. Main thermal loss takes place from 363.69 to 632.11 °C and it is ascribed due to the decomposition of oxygen containing functional group.

**AWARDS and RECOGNITIONS****AAU, Anand****Best Ph.D. Thesis Award**

Dr Partik Prem Jaisani, Ph.D. Scholar of AAU, Anand got Best Ph.D. Thesis Award for commendable thesis work entitled



“Investigations on bioefficacy of *Trichoderma asperellum* and *Pseudomonas fluorescens* in suppression of biotic and abiotic stresses in chickpea (*Cicer arietinum* L.) and mungbean (*Vigna radiata* (L.) Wilczek). Dr Jaisani was felicitated with a certificate and a medal on the occasion of state-level Seminar on *Kheti ma aatmanirbharta maate prakrutik kheti*, organized by the Gujarat Association for Agricultural Sciences (GAAS) held at Gujarat Vidhyapith, Ahmedabad on 02 February 2023. He worked under the guidance of Dr N. M. Gohel, Associate Professor, Department of Plant Pathology, BACA, AAU, Anand.

**KVK Scientist Awarded for Best Oral Presentation**

Dr Shrikant B. Katole, Scientist (Animal Science), KVK, AAU, Devataj participated and presented his research work at XII Biennial Conference of



Scientist receiving the award



Animal Nutrition Association (ANACON 2023) on New Horizons of Animal Nutrition Research: Combating the Challenges of Productivity, Health and Welfare of Animals, held at Department of Animal Nutrition, College of Veterinary Science and Animal Husbandry, DUVASU, Mathura, Uttar Pradesh during 16-18 February 2023. He was awarded for best oral presentation and was felicitated with a certificate and memento.

### Award for the Best Oral and Poster Presentation at IEEC Conference

The 3<sup>rd</sup> International Extension Education Conference on Innovative Applications in Agricultural Extension for Sustainable Food & Environmental Security, organized by the Department of Agricultural Extension and Communication, Institute of Agricultural Sciences at Banaras Hindu University, BHU during 27-30 January 2023. Dr Payal Vihariya, Senior Research Fellow, Faculty of Extension Education Institute (EEI), AAU, Anand participated and presented her Ph.D. research work at this conference and got the best oral and poster presentation award, and was also felicitated with a certificate and memento.



Dr Payal receiving the award

Sustainable Food & Environmental Security, organized by the Department of Agricultural Extension and Communication, Institute of Agricultural Sciences at Banaras Hindu University, BHU during 27-30 January 2023. Dr Payal Vihariya, Senior Research Fellow, Faculty of Extension Education Institute (EEI), AAU, Anand participated and presented her Ph.D. research work at this conference and got the best oral and poster presentation award, and was also felicitated with a certificate and memento.

### Young Scientist Award-2022

Dr C. B. Varma, Assistant Professor, College of Agriculture, AAU, Vaso received G. A. Patel Young Scientist Award-2022 (sponsored by Ghanshyam



Dr Varma receiving the award

Bhai M. Patel) for outstanding research work done in the field of Plant Protection by SAUs

scientist on the occasion of state level seminar on Jameen Janya Rog-Jivatonu Sankalit Niyantran, organized by the Plant Protection Association of Gujarat (PPAG) held at Junagadh Agricultural University, Junagadh on 24 February 2023.

Dr Naziabanu Parvezkhan Pathan was also privileged with Dr R. C. Patel Award-2022 for the Best Research Work Done by a Ph.D. student in the field of plant protection by the PPAG on 24 February 2023 at JAU, Junagadh.

### 4 Star Ranking to the College of Agriculture Information Technology

The Gujarat State Institutional Rating Framework (GSIRF) is a pioneering attempt towards creating world-class institutions in Gujarat by the Knowledge Consortium of Gujarat (KCG) in partnership with the Indian Centre for Academic Ranking and Excellence (ICARE). ICARE is tasked with the responsibility to audit, assess and rate Institutions with a clear focus on the outcome of the institutions to help academic leaders identify areas of improvement, bridge the gaps and achieve excellence regionally, nationally and globally.



In GSIRF ranking for the year 2022-23 the College of Agricultural Information Technology, the constituent institute of Anand Agricultural University, Anand was awarded a ranking in the category of 4 Star Colleges based on comprehensive performance metrics as set out in GSIRF.

On this achievement of the College, Vice Chancellor of AAU Dr K. B. Kathiria congratulated the Principal and Dean of the College, Dr Dhaval R. Kathiriya and entire college family.

### Excellence of Research Award

Ram Niwas Choudhary, Assistant Research

Scientist and Unit Head, Agricultural Research Station, AAU, Dhandhuka, received an Excellence of Research Award honored by SGT University, Gurugram and ISAHRD, Chandigarh for an outstanding contribution made in research work on the occasion of International Conference on Innovative Approaches in Agricultural, Horticultural and Allied Science on 29-31 March 2023, which was organized by SGT University and Just Agricultural – the magazine, at SGT University, Gurugram.

### AU, Kota

- Dr Preeti Verma, Associate Professor (GPB), PI- AICRP on Chickpea, ARS, Kota awarded as Fellow of Society for her outstanding contribution in pulses research by Indian Society of Pulses Research and Development, ICAR-IIPR, Kanpur on 10 February 2023 at New Delhi.
- Dr Rakesh Kumar Bairwa, Associate Professor (Agronomy), KVK, Kota received Best Extension Educationist Award 2023 of the University on the 74<sup>th</sup> Republic Day, 26 January 2023.



Dr Preeti Verma received Society Fellow Award



Dr R. K. Bairwa received Best Extension Educationists Award

### BAU, Ranchi

**Life Time Achievement Award to Dr B. K. Rai**  
Former Dean (Veterinary) & Chairman (Veterinary and Veterinary Pharmacology) of BAU, Dr B.K. Rai was honored with the Life Time Achievement Award for his outstanding contribution in the field of Pharmacology and Pharmaceutical Drug Discovery and

Development at the 52<sup>nd</sup> Annual Meeting of the Indian Pharmacology Society held in Mysore. The award was given by the President and Executive Secretary of the Society. He served BAU for more than 35 years of in the field of veterinary medicine and animal husbandry.



### BAU Student Satish Pahan got Silver Medal in 21<sup>st</sup> Agrisports

Mr Satish Pahan, student of III Semester, Faculty of Agriculture, BAU, Ranchi won silver medal in long jump (6.35 m) at the 21<sup>st</sup> All India Inter Agricultural University Sports Meet (AgriSports)-2023 held on 20-24 February 2023 at CCSAU, Hisar.

### Keval Vats became Second Topper in GATE-2023

In the Graduate Aptitude Test in Engineering (GATE) - 2023 declared by the Indian Institute of Technology (IIT), Kanpur, Kewal Vats, a student of the College of Agricultural Engineering, BAU, Ranchi secured the second position in the all India level ranking. Five students of the College of Agricultural Engineering also qualified the exam. Ms Rupali Gupta got 27<sup>th</sup>, Mr. Gaurav Kumar Agarwal got 68<sup>th</sup>, Ms Pooja Kumari got 78<sup>th</sup>, Mr Hrithik Raj got 182<sup>nd</sup> and Mr Kumar Aditya Raj got 388<sup>th</sup> all India level ranking.



### Dr RPCAU, Pusa

The College of Agricultural Engineering and Technology, RPCAU, Pusa, secured 3<sup>rd</sup> position



in Asia's largest Business Conclave organized by E-Cell Indian Institute of Technology, Bombay under National Entrepreneurship Challenge (NEC) programme in NEC Basic track competition.

### Dr YSRHU, Venkataramannagudem

- Dr T. Janakiram Vice Chancellor, Dr YSRHU, received Horticulture Leadership Award during Progressive Horticulture Conclave 2023 at GB Pant



Dr T. Janakiram receiving award

- Horticulture Conclave 2023 at GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand organized by Indian Society of Horticulture Research and Development (ISHRD) on 03.02.2023.

- Dr E. Karuna Sree, Director of Extension, Dr YSRHU, received Best Extension/Development Award from Indian Society of Horticulture Research and Development during the Progressive Horticultural Conclave 2023 held at GBPUAT, Pantnagar on 05.02.2023.



### Gold Medal to Dr Vinod Dhoot and Dr Gautam Bhojne

34<sup>th</sup> Annual Convention of the Indian Society for Veterinary Medicine was held at College of Veterinary and Animal Sciences, GBPUA&T, Pantnagar, Uttarakhand during 22-24 February 2023. Dr Vinod M. Dhoot, Professor and Dr Gautam R. Bhojne, Assistant Professor of Department of Veterinary Clinical Medicine, Ethics and Jurisprudence, Nagpur Veterinary College, Nagpur received Dr P. K. Das Gold Medal-2020 and Shri Ram Lal Agrawal Gold Medal-2022, respectively, for their outstanding contribution to the profession of Veterinary Medicine and Animal Sciences and for the advancement of Indian Society for Veterinary Medicine, respectively.



Dr Vinod M. Dhoot receiving award



Dr Gautam R. Bhojne receiving award

Dr P. K. Das Gold Medal-2020 and Shri Ram Lal Agrawal Gold Medal-2022, respectively, for their outstanding contribution to the profession of Veterinary Medicine and Animal Sciences and for the advancement of Indian Society for Veterinary Medicine, respectively.

### PAU, Ludhiana

- All India Co-ordinated Research Project on Integrated Farming Systems (IFS) on-Station (Ludhiana) as well as on-Farm Research (Patiala) centres were awarded the Best Centre awards, for their performance during the biennium 2020-22, at VII Biennial Workshop of AICRP-IFS during the 18-21 January 2023 at Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra organized by ICAR-Indian Institute of Farming Systems Research, Modipuram, Meerut and MPKV, Rahuri. The Ludhiana on-station centre was awarded best out of the 37 On-station research centres to undertake applied and adaptive research in integrated farming systems (IFS) on

### MAFSU, Nagpur

#### Dr Sachin W. Bonde Received Fellowship

Dr Sachin W. Bonde, Professor and Head, Department of Veterinary Biochemistry, Nagpur Veterinary College, Nagpur was recognized as Founder Fellow of Society of Veterinary Biochemist and Biotechnologist of India (SVBBI) on 5 January 2023 in VI National Conference held at College of Veterinary Science, Jabalpur.



production technologies for improving system productivity and resource use efficiencies. The Patiala On-Farm Research centre was chosen amongst 32 On-farm research centres located at various places all over India, which function for on-farm testing and refinement of system-based farm production technologies and to optimize on-farm integration of farm enterprises for enhanced farm incomes, resource/ input use efficiencies, and employment opportunities.

- Dr Sandeep Singh, Senior Entomologist (Fruits), Department of Fruit Science was selected as member, Editorial Committee of Tephritid Workers of Asia, Australia and Oceania (TAAO) Newsletter, Australia.
- Ms Arshita Sharma (M.Sc. Entomology) 1<sup>st</sup> year student got selected for prestigious Khorana Program for Scholars. Under this programme, she will complete research internship at University of Tennessee, USA from May 5 to Aug 5, 2023.
- The contingent of 18 members from PAU, Ludhiana participated in 36<sup>th</sup> National Inter-University Youth Festival 2022-23 organized by the Association of Indian Universities (AIU), Ministry of Sports & Youth Affairs, Government of India, New Delhi at the campus of Jain University, Bengaluru from 24-28 February 2023. PAU students represented North Zone and PAU at the National Inter-University Youth Festival in One Act Play, Quiz & Elocution events and won Silver Medal in One Act Play and Bronze Medal in Elocution events.



Participants from Punjab Agricultural University, Ludhiana participated in 36<sup>th</sup> National Inter-University Youth Festival 2022-23

- The contingent of 27 members from Punjab Agricultural University, Ludhiana participated in 21<sup>st</sup> All India Inter-University Youth Festival 2022-23 organized by University of Agricultural Sciences, Bengaluru in collaboration with Indian Council for Agricultural Research (ICAR), New Delhi from 13-17 March 2023. PAU students won Silver Medal in Group Song Indian, Bronze Medal in Folk Dance Boys & Mono Acting.



Participants from Punjab Agricultural University, Ludhiana participated in 21<sup>st</sup> All India Inter-University Youth Festival 2022-23.

## PJTSAU, Hyderabad

### Staff Awards

- Ms K. Ramya, student from College of Community Science won third prize in Essay Writing Telugu, at State Level Essay writing competition conducted by the Raj Bhavan on 07 January 2023 on G20 India's Presidency and A.S. Aditya, Agricultural College, Aswaraopet Essay Writing in English. While, Akanksha Kumari, Agricultural College, Palem and Sadafi Farheen, Agricultural College, Sircilla won Consolation Prizes in Essay Writing Hindi.
- Eight students from Agricultural College, Jagtial participated in District Level Wako India Kick Boxing championship -2023 held at Dharoor Camp, Jagtial on 12 March 2023 and bagged 5 Gold, 3 Silver and 3 Bronze medals.
- Dean PGS received an award in recognition of her meritorious scientific work on the occasion of International Women's Day jointly hosted by the organization for Women in Science for the Developing World National – Chapter, India, Institute of Genetics and Hospital for Genetic Diseases, Osmania University and Rotary

International Club RC Smart Hyderabad, on 08 March 2023.

- Eleven students from the University received meritorious students awards at the *Sri Sobhakritu Nama Ugadi* (Pre-Ugadi) celebrations conducted at Raj Bhavan on 20 March 2023.

### SKUAST, Jammu

- Dr S. R. Upadhyay, Professor, got D. C. Blood Gold Medal on the occasion of 34<sup>th</sup> Annual Convention of Indian Society for Veterinary Medicine held at college of Veterinary and Animal Sciences, GBPUA&T, Pantnagar, Uttarakhand during 22-24 February 2023.
- Dr R. K. Bhardwaj, Associate Professor got Dr G. N. Dutta Memorial Award on the occasion of XXXIX Annual Convention of Indian Society for Veterinary Medicine held at college of Veterinary and Animal Sciences, GBPUA&T, Pantnagar, Uttarakhand, during 22-24 February 2023.
- Dr Kawardeep Kour, Assistant Professor, VPB was awarded Certificate of appreciation note speaker in 15 days training cum certificate programme on trending novel technologies in agriculture, animal husbandry, fisheries science and their allied systems held from 15-30 January 2023 and organized by Society of Agriculture Research and Soil Development, College of Agriculture, Tripura and Mallareddy University.

### TNJFU, Nagapattinam

- D. Navinkumar, II B.F.Sc student of Dr MGR Fisheries College and Research Institute, Ponneri won the Champion of Champions trophy in the 9<sup>th</sup> Tang Soo Do Championship 2022-23,



held in New Delhi on 5-6 January 2023 under the aegis of ITF Tang Soo Do Sports Federation of India affiliated to the School Games Federation of India.

- Mr Gokul Prasad, II M.F.Sc [DFPT] of Dr MGR FCRI, Ponneri secured 2<sup>nd</sup> prize in a poster presentation held at the International Food and Beverage Technology Conference (IFBT'23)



organized by the College of Food Technology, TANUVAS at Chennai from 04-06 January 2023.

- Ms R. Ramya, PhD student, Department of Fisheries Biotechnology, IFPGS has received two appreciation awards NPTEL BELIEVERS for July-Dec 2021 and NPTEL ENTHUSIASTS for Jan-Apr, 2022 from NPTEL for her completion of eight different online courses from the NPTEL portal.



- Ms M. Archana, IV B.Tech. (Energy and Environmental Engineering) student of CoFE received the Best Poster Presentation Award for the presentation entitled Design and Development of Atmospheric Water Generator, at the International Conference on Environmental Management and



Ms M. Archana receiving the award



Sustainable Development organized by Holy Cross College, Trichy, on 24.01.2023.

- Ms Kalpita Tripathy, a second-year PhD student, IFPGS, secured first position in oral and poster presentation under the theme Genome to Phenome in Aquatics on the papers entitled Expression Profiling of Stress Genes During Induced Breeding in *Cyprinus carpio* (Common carp) and Expression Profiling of Stress



Genes in Offspring of Induced Bred *Cyprinus carpio* (Common carp), in the international conference on Responsible Aquaculture and Sustainable Fisheries Interact (RASHI-2022) during 13-16 December 2022 at College of Fisheries, Central Agricultural University (I), Tripura, India.

- An International Conference on Innovations in Food and Beverage Technology for Sustainable Future was organized by CFDT,



TANUVAS, Koduvalli at MVC, Vepery, Chennai, from 04.01.2023 to 06.01.2023.

- Dr S. Vishnu Priya, Assistant Professor, CFNFT won 1<sup>st</sup> prize for Paper Presentation.
- Er. V. Velukumar, Assistant Professor, CFNFT and Ashwin Raj (IV Year) won 1<sup>st</sup> prize for Poster Presentation.
- Ms Monisha. M (I year) won 2<sup>nd</sup> prize for Poster Presentation.
- Ms H. Manasa Nivedha and C. Subaneshwari (I year) won 3<sup>rd</sup> prize for Poster Presentation.

- Ms R. Rabika, II year M.F.Sc (Fish Biotechnology) of TNJFU-IFPGS was conferred First place in an oral presentation entitled Exploration of anti-inflammatory



activities of *Portieria hornemannii* using zebra fish embryos via NFκB associated MMP 9 expression in the “National Conference on Integrated Approaches in Drug Discovery and Development, Phyto Drugs 23” organized by Anna University in association with DST-SERB held at Anna University, Trichy campus during 16 - 17 February 2023.

- The Students of B.Tech. Food Technology won prizes in the National Symposium on “Current Trends in Food Safety & Quality Control” which was conducted at SRM Institute of Science and Technology, Kattankulathur in association with AFSTI Chennai Chapter on 10 February 2023.
  - Mr Dhivakkar, A. Kishore and Mr R. Balachander (IV Year) won the Second Prize in New Food Product Development.
  - Mr V. Naren, Mr V. K. Swetha and Mr T. P. Tharshini Dev (IV Year) won the Second Prize in Poster Presentation.

- Ms B. Indhumathi (2020-21 Batch), a student of Dr MGR FCRI, Thalineru won first prize in the poster-making competition on the theme of “Ways to Improve Fish consumption in India” and Ms Swetha and Team (2020-21



Dr J. K. Jena, DDG (fisheries), ICAR giving award

Batch) won second prize in the cultural event in the Swar Tarang- Inter College Cultural event, Next Gen Teaching and Idea presentation on Climate change: A Students Perception, organized by ICAR-CIFE, Mumbai during 20-22 March 2023.



- The students of Dr MGR. FC&RI, Thalainayeru Ms K. K. Mathumeetha (III Year B.F.Sc) won first place in the poetry competition, Ms F. Sharine Cathrine (III Year B.F.Sc) won third place in the declamation contest (English speech), Mr E. Kavinessh (II Year B.F.Sc) won third place in mobile photography, Ms P. Oviya (II Year B.F.Sc) won first place in the Youth convention (Tamil Speech) and Ms S. Naveena and her team (II and III Year B.F.Sc) won first place in the dance competition in the district level Youth Festival organized by Nehru Yuva Kendra, at Prime College, Kilvelur.
- Ms Shriya Rajesh – II BBA (FEM) IFPGS student received runner in the Best Manager event during the Intercollegiate event held at Dr M. G. R, Educational and Research Institute, deemed to be university, Chennai on 18 March 2023.
- The B.Tech (Biotechnology) students of IFPGS bagged both the winner and runner prizes in Biomeraki 2023, the national-level technical symposium competition at Anand Institute of Higher Technology, Kazhipattur, Chennai on 18 March 2023.
- Ms Joshna, II-year PhD student (2021-2022 batch) in the Department of Aquaculture of Dr MGR Fisheries College and Research Institute, Ponneri was selected for the Prime Minister's Fellowship for



Doctoral Research [PMFDR] - A PPP initiative jointly promoted by SERB & CII. Murugappa Fish Feeds distributor, Kaveripattinam will be the industry partner to provide fellowship.

- Mr P. Ajith (2020-21 Batch) and Mr R. Senthamil (2019-20 Batch), students won second place and entered into the quarter-final in the Tamil Nadu Chief Minister Trophy – Beach Volleyball (Trichy Regional level) organized by District Sports and Youth Welfare Department, Thanjavur on 04 March 2023 at Manora Beach Ground, Mallipattinam.



### Sports Meet

Students of CoFE participated in Chief Minister Trophy Sport's meet 2022-23 organized at Nagapattinam from 07-09 February 2023.

Ms Vanapriya, I B.Tech FE secured II and III prizes in the Double and Single Sticks of Silambam event, Ms Sahaya Rubhasha II B.Tech EEE secured II prize in the Shot put event, Ms Pravarthika II B.Tech FE secured III Prize in High jump event and Mr Nithish secured Second Prize in High jump event. In the event, the 2020-21 batch Students of Dr MGR Fisheries College and Research Institute, Thalainayeru Mr P. Ajith, secured 1<sup>st</sup> place in the High jump Men and was selected in State level Volleyball team to represent the Nagapattinam District; Ms R.S. Ambrisha (2021-22 batch) secured 3<sup>rd</sup> place in Shuttle cork singles women and Ms S. Bhavatharani and Ms B. Indhumathi (2020-21 batch) secured 3<sup>rd</sup> place in Table tennis (doubles) women.



### **M.F.Sc., Student Bagged Bayer Fellowship – MEDHA**

Mr P. Kalaiselvan, first-year M.F.Sc., Department of Fish Nutrition and Feed Technology, IFPGS, Chennai was awarded Bayer Fellowship - MEDHA. His selection was made based on his academic merit, letter of motivation, and interview performance. The fellowship amount is ₹ 20,000/ month for two years.



### **UAS, Bengaluru**

- AICRP for Dryland Agriculture, received Best Book Award for the book on Integrated Farming Systems in Kannada from Karnataka Science and Technology Academy, Department of Science and Technology, Government of Karnataka on 17 March 2023.
- AICRP on Post-harvest Engineering and Technology was bestowed with Best Centre of the Year 2022-23 award (Third position) by ICAR-Central Institute of Post Harvest Engineering and Technology, Ludhiana awarded during the 38<sup>th</sup> Annual Workshop of AICRP on PHET held at ICAR-CPCRI, Kasargod during 20-22 February 2023 in recognition of outstanding contribution in development of Technologies in Post Harvest Engineering and Technology.
- Kumari Syeda Ifthaquar Banu, AMB 0242, III BSc. (Hons) Agri, College of Agriculture, GKVK, UAS, Bengaluru secured Bronze Medal in Foil event for Women in the Khelo India Womens Fencing League and Ranking Tournament Phase-3 held at Jawaharlal Nehru Indoor Stadium, Chennai from 12-15 March 2023.
- Ms Srividya R. III B. Tech. (Agri Engg.) student secured Bronze Medal in the 2<sup>nd</sup> Edition of Khelo India 2021 Inter University Games held at Jain University, Bengaluru during 28-30 April 2022.

### **UAS, Dharwad**

#### **KVK, Haveri Received Best KVK Award**

KVK, Haveri was awarded the best implementing agency for the sustainable efforts in cashew extension activities in the national



conference on cashew on 30-31 January 2023 at Bhubaneswar, Odisha. Dr Ashoka P., Senior Scientist and Head, KVK, Haveri received the award on this occasion.

### **UAS, Raichur**

The University of Agricultural Sciences, Raichur has received National SIRIDHANYA Award – 2023 under the category as



“Best Institution for Millet Promotion through Teaching, Research and Extension” during International Trade Fair on Millets and Organics 2023 organized by Department of Agriculture, Govt. of Karnataka at Palace Grounds, Bengaluru from 20-22 January 2023.

## **LIMELIGHTS**

### **AAU, Anand**

#### **Senior Expert from PUM (Programma Uitzending Managers) Netherlands Visited AAU, Anand**

A senior expert from PUM (Programma Uitzending Managers) Netherlands visited AAU on 07 February 2023. PUM Netherlands works in 34 countries and has 1,600 in-house experts



with in-depth knowledge of their field to support Small and Medium Enterprises.

The expert from PUM Netherlands Mr Gerrit Brummelman, Sector Coordinator and Mr Jolly J Kochupurackal, Local Representative - India had a meeting with Vice Chancellor, Dr K. B. Kathiria.

The expert was briefed about

Anand Agricultural University and various

activities being carried through its Incubation Center for the benefit of entrepreneurs and start-ups. There was also an interaction to discuss possible areas of cooperation and collaboration with PUM Netherlands. The expert was highly impressed by the business support and incubation facilities available at AAU Incubation Center.

The meeting was attended by various university officers including Dr M. K. Jhala, Director of Research and Dean of PG Studies, Dr G. R. Patel, Registrar, Dr Samit Dutta, Dean, College of FPT and BE and Dr R. S. Pundir, Dean, IABMI, AAU, Anand.



Senior Expert from PUM Netherlands with Vice Chancellor, AAU, Dr K. B. Kathiria and University officers

### Shree Anna Startup Seed Camp

Dr K. B. Kathiria, Vice Chancellor, AAU launched the Shree Anna Startup Seed camp program on 20 February 2023, to support entrepreneurs, startups and farmer-producer organizations working towards strengthening millet's value chain to help them build scalable businesses.

The launching ceremony was witnessed with the august presence of Padma Shri Dr Khadar



Vice Chancellor, AAU, Dr K. B. Kathiria, Padma Shri Dr Khadar Vali, Dr J.V. Patil, former Director of IIMR and other dignitaries while launching the startup

J.V. Patil, former Director of Indian Institute of Millet Research (IIMR), Hyderabad and other dignitaries from AAU including Dr M. K. Jhala, Director of Research, Dr Samit Dutta, Dean, College FPT&BE, Dr R. S. Pundir, Dean, IABMI, AAU, Anand.

The program offers entrepreneurship training, business support, access to labs, food processing pilot plants and funding support to entrepreneurs, startups and FPOs working on millets. Details are available at <https://www.AAUincubator.in>.

### AU, Kota

#### Kulpati-Vidhyarthi Sanwad

Novel programme *Kulpati-Vidhyarthi Sanwad*, held at College of Agriculture, Kota, College of Horticulture

and Forestry, Jhalawar and College of Agriculture, Hindoli, Bundi during March



2023. Vice Chancellor, Dr A. K. Vyas interacted with 186 students of B.Sc., M.Sc. and Ph.D. in Agriculture, Horticulture and Forestry discipline and addressed on various aspects like self-control, self-motivation, self-confidence, self-management, time management and aim of life. He also motivated the students towards their life goal and suggested how to achieve life goal in efficient way and motivated them for their career opportunities.

### Dr RPCAU, Pusa

**Diksharambh** (one month Foundation Course) for newly admitted students of Under Graduate programme was inaugurated by the Vice Chancellor Dr P. S. Pandey on 07 March 2023 to inculcate the value of yoga and meditation for physical and mental health and to promote



the inherent talent of students in co-curricular activities such as sports, music, drama, fine arts, etc.



Dr P. S. Pandey speaking at  
Diksharambh



Inauguration of Foundation  
(Deeksharambh) Course

## Dr YSRHU, Venkataramannagudem

### Chrysanthemum Day

Department of Floriculture and Landscaping, College of Horticulture, Venkataramannagudem, organized *Chaamanthi sambaralu* on 27 January 2023 to create awareness on Chrysanthemum cultivation in open field as well as in protected structures. Vice Chancellor Dr T. Janakiram, inaugurated the programme as Chief Guest and shared the research highlights in Chrysanthemum. About 50 farmers from Padala, Prakashraopalem and Telikicherla participated in this programme. ELP students arranged exhibition and displayed different value added products like Chrysanthemum flower bouquets, vase decorations, floral balls, Chrysanthemum garlands, wreaths, veni, greeting cards, key chains, paper weights and Chrysanthemum Tea. The event was organized under the chairmanship of Dr D. R. Salomi Sunitha, Dean of Students Affairs.



Chrysanthemum Day Celebrations

### Mushroom day

On 28 January 2023 Dr YSRHU - College of Horticulture, Venkataramannagudem and Dr YSRHU - Krishi Vigyan Kendra,

Venkataramannagudem, organized Mushroom Day. Dr T. Janakiram, Vice Chancellor, Dr YSRHU, inaugurated the Exhibition.



Mushroom Day

Cookery competition with mushrooms was conducted and 28 recipes like Mushroom cookies, Mushroom Protein Powder, Mushroom Murabba, Mushroom momos, Mushroom samosa, Mushroom Sandwich, Mushroom pickle, Mushroom Biryani, Mushroom 65 etc., were prepared by ELP Students and rural women.

### Millet Fest

On 09 March 2023 Dr YSRHU-KVK, Venkataramannagudem organized the event MILLET FEST as part of celebrations of International year of millets-2023 in Dr BR Ambedkar



Millet Fest

Gurukulam (Girls), Vatluru, Pedapadumandal, Eluru District. Various competitions like Drawing, elocution and essay writing were conducted for girls on millets in senior and junior levels. Dr E. Karuna Sree, Principal scientist and Head explained about importance of millets in food diet. Dr T Janaki Ram, Vice Chancellor, addressed about the scope and health benefits of Millets and awarded the students with certificates and mementoes for competition winners. Later, visited the science hub of school and appreciated the innovative works done by students. Dr M Raghavendra Reddy, Scientist (SS&AC), Dr YSRHU-KVK, Venkataramannagudem organized the event and created an awareness on usage of millets to students.

## PJTSAU, Hyderabad

### Drone Technology

The PJTSAU embarked upon intensification of research efforts in critical areas of drone application to – generate information on evidence - based data on drone



efficacy in spraying against various insect pests or diseases vis-a-vis manual spraying; study and standardize drone operating procedures for plant protection; evaluate the efficacy of pesticide formulations against various insect pests and diseases of rice; develop crop specific SOPs for pesticide use by drones; and identify drone compatible special chemical formulations, adjuvants; optimize their dosage in rice. Publications viz., *Autonomous Drones In Agriculture - Standard Operating Protocols For Agrochemical Application in Field Crops*, and *Standard Operating Protocols for Drone Based Pesticide Application in Rice* were released for the benefit of stakeholders.

Further, to demystify the apprehensions about interference of spray chemicals applied by drones with environment, special studies on ascertaining the impact of drone-based spraying of pesticides on avian and beneficial insect fauna, and soil microbiota, etc., were initiated. Studies on product quality assurance through bio-efficacy studies and residue analysis of insecticides and fungicides sprayed using drones in rice were also taken up in multidisciplinary mode with an aim to quantify the target molecules in the economic product.

## UAS, Bengaluru

### Visit of Hon'ble Governor of Karnataka

His Excellency, Hon'ble Governor of Karnataka and Chancellor of UAS, Bengaluru visited UAS, GKVK, Bengaluru on 23 January 2023 to know

about different activities of UAS, Bengaluru on teaching, research and extension. He visited Examination Hall, Smart Class Room and Niche Area -Department of Agril. Entomology in South Block, College of Agriculture; Tissue Culture Laboratory, Department of Horticulture and Department of Sericulture and interacted with students, faculty and staff.



Visit by His Excellency, the Hon'ble Governor of Karnataka & Chancellor of UASB to College of Agriculture, GKVK

### 21<sup>st</sup> Agri Unifest

The 21<sup>st</sup> All India Agricultural University Youth Festival (Agri Unifest:2022-23) was organized from 13-17 March 2023 at University of

Agricultural Sciences, Bengaluru under the aegis of ICAR, New Delhi. Students participated in different cultural events and exhibited their expertise in fine arts, theatre, music, folk dance and literary events. The fest was a synergy of the youth and hustle bustle affair with a gamut of events that tested the talent and creativity of youth.

It was a momentous occasion when the 21<sup>st</sup> Agri Unifest was formally inaugurated by Shri Narendra Singh Tomar, Union Minister of Agriculture and Farmers' Welfare,

Government of India; Sushri Shobha



Inauguration of 21<sup>st</sup> Agri Unifest by Shri Narendra Singh Tomar, Union Minister of Agriculture and Farmers' Welfare



Dignitaries officially starting the events by beating musical instruments



Karandlaje, Minister of State, Ministry of Agriculture and Farmers' Welfare, Government of India and Shri B. C. Patil, Minister of Agriculture, Government of Karnataka and Pro-Chancellor of UAS, Bengaluru in the august presence of Dr S. V. Suresha, Vice Chancellor, UAS, Bengaluru; Dr R. C. Agarwal, Deputy Director General (Agril. Education), ICAR, New Delhi and the guests of honour Members, Board of Management, UAS, Bengaluru at Dr Babu Rajendra Prasad Convention Center, UAS, Bengaluru on 15 March 2023.

Shri Narendra Singh Tomar, congratulated UAS-B for organizing the 21<sup>st</sup> Agri Unifest. He expressed that he witnessed a mini India in the campus with Unity in Diversity. He called the youth to adopt new technologies in agriculture and lay a strong foundation for a better nation. Shri B. C. Patil, Minister of Agriculture, Government of Karnataka and Pro-Chancellor of UAS expressed that the Youth Festival is a mirror of our culture and a means to unveil the talent of the youth. Dr R. C. Agarwal, Deputy Director General (Agril. Education), ICAR remarked that participation in extracurricular activities is important for overall development of the students' personality in addition to academics. The valedictory function of the 21<sup>st</sup> Agri Unifest was organized at Dr Babu Rajendra Prasad International Convention Center of GKVK Campus on 17 March 2023 to mark the end of the Unifest. In the concluding ceremony, the guests distributed awards to the winners of the participating Universities in different events. The Overall Champion Trophy was won by the University of Horticultural Sciences, Bagalkot, Karnataka while, Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur, West Bengal won the first runner-up place. University of Agricultural Sciences, Bengaluru, Karnataka



UHS, Bagalkot team received the Overall Championship trophy

won the second runner-up trophy. The non-winners and competitors deserve to be acknowledged for their crowd sourcing initiative. Members of Board of Management and all the Officers of the UAS-B graced the valedictory programme. Dr S.V. Suresha, Vice Chancellor in his presidential remarks said that the event is successful because of the efforts of student volunteers, faculty members and farm laborers. He concluded with the remarks 'Let the talent win'.

### UAS, Dharwad

#### Development and Release of Late Leaf Spot Resistant Groundnut Genotypes Using Marker-Assisted Backcross Breeding (MABB)

MABC in JL 24 × ICGV 86699 and TMV 2 × GPBD 4 resulted in the identification of Late leaf spot (LLS) resistant backcross lines DBG 3 and DBG 4, respectively. Background selection using ddRAD-Sequencing showed almost 99% background genome recovery among the backcross lines. Pod and kernel features, test weight, shelling percentage and quality parameters of DBG 3 and DBG 4 were comparable to their recurrent parents.

Across the station trials, multilocation trials, farm trials and large-scale demonstrations, DBG 3 with an average yield of 1767 kg/ha recorded 28% more yield than JL 24. Similarly, DBG 4 with an average yield of 1820 kg/ha recorded 30% more yield than TMV 2. With these better performances, both DBG 3 and DBG 4 were released for *kharif* (rainy season) cultivation in the Zone 8 of Karnataka state.



JL 24      DBG 3      TMV 2      DBG 4

DBG 3 was re-named as *Improved JL 24*, while DBG 4 as *Super TMV 2*. They were notified by the Department of Agriculture and Farmers Welfare of Ministry of Agriculture & Farmers



Welfare, Government of India on 06 March 2023.

## RESEARCH PUBLICATIONS (≥12 NAAS RATING)

### PAU, Ludhiana

- Mavi M.S., Singh G., Choudhary O. P., Singh A. (2023). Successive addition of rice straw biochar enhances carbon accumulation in soil irrigated with saline or non-saline water. *Environmental Research* 217: 114733 (NAAS Rating:14.43)
- Jagtap A.B., Yadav I.S., Vikal Y., Praba U.P., Kaur N., Gill A.S. and Johal G.S. (2023) Transcriptional dynamics of maize leaves, pollens and ovules to gain insights into heat stress-related responses. *Front. Plant Sci.* 14:1117136. (NAAS Rating:12.63).
- Karnatam K.S., Chhabra G., Saini D.K., Singh R., Kaur G., Praba U.P., Kumar P., Goyal S., Sharma P., Ranjan R., Sandhu S.K., Kumar R. and Vikal Y. (2023) Genome-Wide Meta-Analysis of QTLs Associated with Root Traits and Implications for Maize Breeding. *Int. J. Mol. Sci.* 24: 6135. (NAAS Rating: 12.21).
- Hira Singh, Mauro Lombardo, Abhishek Goyal and Khar A (2023) Genotypic variation in Na, K and their ratio in 45 commercial cultivars of Indian tropical onion: A pressing need to reduce hypertension among the population. *Frontiers in Nutrition* <https://doi.org/10.3389/fnut.2023.1098320> (NAAS Rating 12.66).
- Ubhi M.K., Kaur M., Singh D., Sharma V. K. (2023) Structural and adsorptive properties of boron- and phosphorous-doped graphene oxide: Insight into effective removal of Pb (II) and As (III). *J Water Process Eng.* 52: 103539. NAAS Rating:13.3.

### TNJFU, Nagapattinam

- Keerthika K., Padmavathy P., Rani V., Jeyashakila R., Anand S., Kutty R., Tamilselvan R. and Subash P. (2023). Microplastic accumulation in pelagic and benthic species along the Thoothukudi coast, South Tamil Nadu, India. *Marine Pollution Bulletin*, 189, p.114735. <https://doi.org/10.1016/j.marpolbul.2023.114735> [NAAS Rating:13.00]

### UAS, Raichur

- M. R. Umesh, Sangu Angadi, Sultan Begna, Prasanna Gowda, Leonard Lauriault, Robert Hagevoort and Murali Darapuneni in 2023, Intercropping and species interactions on physiological and light use characteristics of forage cereals-legumes combinations in semi-arid regions. *Field Crops Research* 290 (2023) 108755. (NAAS Rating:12.15)

## FUTURE PROGRAMMES

### BAU, Ranchi

- Meetings of Seed Council, Kharif Research Council and Research Council; Extension Council, Inauguration of Giloy Processing and Research Center and 43<sup>rd</sup> Foundation day of BAU shall be organized. Besides, ongoing education, research and extension programmes will be continued with more focus on priority activities.

### PAU, Ludhiana

- Mohinder Singh Randhawa Library along with AALDI (Association of Agricultural Librarians and Documentalists of India) is going to organize 3<sup>rd</sup> International Conference of Agricultural Librarians and User Community-2023 on 05-06 October 2023.

- Director of Extension Education will organize Second Sarkar-Kisan Milni on 11 May 2023.
- Mandatory orientation course on Effective Teaching, Research and Extension for newly recruited faculty of PAU, Ludhiana to improve teaching research and extension in the University, will be conducted.
- Development of different crop varieties with high yield with appropriate maturity duration with biotic and abiotic stresses resistance.
- The Centre for Water Technology and Management, Department of Agronomy, will continue to conduct extensive research work on water management aspect of agricultural crops.
- Development of eco-friendly rice varieties with matching production and protection technologies.

### **PJTSAU, Hyderabad**

- Soil Health Management for enhancing organic carbon through promotion of diversified cropping systems, crop residue management, green manure crops, use of bio-fertilizers including site specific nutrient and use of nanomaterial for controlled-release of nutrients in major crops to reduce fertilizer use and GHG emissions in major crops.
- Establishment of Advance Center of Excellence on Organic, Agro-photovoltaic and Precision Farming Models Hydroponics, Aquaponics and Aeroponics using Artificial intelligence (AI), Internet of things (IoT), Remote sensing - Geographical information systems (RS-GIS) and Sensors,
- Development of Standard Operating Protocols (SOPs) for spraying and diagnosis using drones including skill training for rural youth.
- Establishment of Plant phenomics / Speed Breeding facilities to hasten-up breeding of crop varieties / hybrids.

- Establishment of Nano Technology Lab for initiating research on use of nanomaterials for controlled-release of nutrients, pesticides and fertilizers in crops as well as nano sensors for agricultural practices, food quality and safety.
- It is proposed to intake 1233 UG, 270 PG and Ph.D. and 924 diploma students during the year 2023-24.
- It is proposed to undertake 400 Training Programmes, 315 Technology Assessment and Refinement activities, 1200 Diagnostic Field Visits, 170 Method Demonstrations, 50 *Kisan Melas* in all district headquarters and 100 Farmer Interaction programmes during the year 2023-24.

### **SKUAST, Jammu**

- Production and distribution of elite planting materials of rainfed subtropical fruit crops during the year i.e., aonla, kinnow mandarin, Eureka lemon, orange, malta, mossambi, kagzi lime, bael, phalsa, jack fruit and custard apple, etc.
- Research on sustainable production technology for hill agriculture including crop improvement, resource and pest management.
- Research on conservation and efficient utilization of natural resources.
- Development of low cost soil and water conservation technologies for rainfed area of Jammu region.
- The Division of Biochemistry will organize training programme on Hi end skilling workshop on modern analytical techniques in Food Biochemistry, sponsored by SERB, DST Government of India, New Delhi.
- Work on emerging zoonoses and to study the epidemiology of important livestock diseases.
- Work on Assisted Reproductive Technologies (ARTs).

**UAS, Bengaluru**

- Convocation will be organized.
- Planned exposure visits for UG students semester-wise for different courses.
- Nine modules will be introduced under EL/HoT to inculcate entrepreneur skills for final year UG students.
- Cross Learning Programme for UG degree programme during II Semester 2022-23.
- Finishing School Programme for UG degree programme during II Semester 2022-23.

**UAS, Dharwad****Space and Gravitational Plant Biology Research at UAS, Dharwad**

Space and altered gravity is an evolutionarily novel environment. Gravitational plant biology work initiated at the University is an exciting niche area of research with potential applications for both space and terrestrial agriculture. It is expected to reveal novel strategies that can be harnessed to develop crop plants for climate resilient agriculture in future. For instance, hyper gravity enhanced root growth phenotype demonstrated by university faculty may be useful for developing crops that are resilient to drought and poor soil conditions. Current and future collaboration with ISRO will help developing *Cosmic Crops* from space breeding program that can directly benefit terrestrial agriculture with distinctive useful traits.

Besides, following activities will also be undertaken:

- Creation of virtual classrooms (4)
- Industry-interface meet (2)
- International training of students and faculty (40+28)
- Motivational and entrepreneurial trainings/Startup/Skill/initiation trainings (8)
- Higher training for students (subject/technology based):14
- Hackathon/Ideathon (2)

- Alumni Meet: 1
- Green initiatives: planting of rare/endangered species and maintenance and upkeep of existing rainwater harvesting structures, etc.

**NEW VICE CHANCELLOR****Bihar Agricultural University (BAU), Sabour****Dr D. R. Singh**

Dr D. R. Singh, former Vice Chancellor, CSAUAT, Kanpur has joined as Vice Chancellor, Bihar Agricultural University (BAU), Sabour, Bhagalpur, Bihar on 15 January 2023. The Executive Committee of IAUA extends heartiest congratulations and best wishes to Dr D. R. Singh for his new responsibility.

