



BIHAR AGRICULTURAL UNIVERSITY, SABOUR

Happening at BAU

Issue 212

Education ! Research ! Extension ! Training

January 2020



From the Desk of the Vice-Chancellor



Holistic development of farming community is the outcome of pragmatic extrapolation of teaching, research, extension and training by the agricultural university. Bihar Agricultural University, Sabour is committed for these, since its establishment. University celebrated 71st Republic Day in befitting manner. University participated in Jal-Jeevan-Hariyali Programme of Hon'ble Chief Minister of Bihar. BAU Sabour joined together for the great human chain. The university will be awarded the e-Governance Award during 23rd National Conference on e-Governance (NCEG 2020) will be held at Mumbai, Maharashtra during February 7th-8th 2020. I call upon all the teachers, scientists, students and staff of the University to put upon their endeavour, dedication and support for accelerated development

of the university.

Dear Friends,

We are presenting before you the two hundred and twelveth issue of the Newsletter. This issue consists of information on Research, Education, Extension and Training program conducted and organized by the University during the month. This newsletter is the medium to reflect our hard work in the field of research and other activities. Kindly share important investigation and observations for making Happening at BAU more meaningful and popular among subscribers. Your inputs for the newsletter must reach us at least one day in advance to the date of issue. You may also like to circulate it to other colleagues and provide their email ids, so that they may get the Happening at BAU in time.

-Team Happening

Focus of the University

- The 71st Republic Day Celebration at BAU and its Constituent Colleges and Units
- University Participated in Jal-Jeevan-Hariyali Programme
- BAU Sabour Telecasted Global Potato Conclave
- Govt. of India will Confer e-Governance Award to University
- BAU Sabour Joined Together for the Great Human Chain

The 71st Republic Day Celebration at BAU and its Constituent Colleges and Units

BAU Celebrated 71st Republic Day in befitting manner. Hon'ble Vice-Chancellor, Prof. Ajoy Kumar Singh addressed the gathering on the auspicious occasion. He congratulated all members of the university for getting 18th Rank in ICAR Ranking of 2019 for their outstanding achievements in academics, research, extension and training. He directed all the students and faculty members for accelerated academic achievements in terms of more number of JRFs/ SRFs/ NET and ARS. Students should also be encouraged for getting Prestigious Prime Ministers Fellowship Programme. University developed chickpea variety Sabour Chana-2 and brinjal variety Sabour Sadabahar. More than 55 Material Transfer Agreement (MTA) were signed during 2019 with different scientific organization of the country. Advanced Research Centre on Horticulture started working on pineapple and dragon fruit. Biotech Kisan Hub, Tribal Sub-Plan and FARMERS FIRST and Climate Resilient Agriculture Programme (CRA-P) are main extension activities of the university. University will work on development of hybrid rice, bio-fortified rice variety, short duration single cross maize hybrids, heat tolerant and wilt resistant chickpea and lentil and commercial production of liquid biofertilizer. RKVY-RAFTAAR funded arsenic project, tissue culture propagated pineapple, pesticide residue, mushroom cultivation at Koshi belt, hydroponics and artificial intelligence in agriculture etc programme started in the university. The university will be awarded the e-Governance Award during 23rd National Conference on e-Governance (NCEG 2020) will be held at Mumbai, Maharashtra during February 7th-8th 2020. All departments, KVK and farm participated in Jhanki on thematic area of Climate Resilient Agro-technologies. Cultural programme was also organized and large number of students from schools participated in the events. First prize for Jhanki was awarded to Entomology whereas Soil Science and Agricultural Chemistry and KKV, Sabour won second prize, and Plant Pathology and Plant Breeding and Genetics were awarded with third prize.

Bihar Agricultural University, Sabour



University Participated in Jal-Jeevan-Hariyali Programme

Shri Nitish Kumar, Hon'ble Chief Minister visited BAU Stall on January 9th at Bhulni village of Shahkund block of Bhagalpur where Climate Resilient Agricultural Technologies developed by the university were displayed. Shri Ashok Chaudhary, Hon'ble Minister, Building Construction, Govt of Bihar, Sri Sanjay Kumar Jha, Hon'ble Minister, Water Resources Department, Govt of Bihar and other dignitaries were also present. Promising varieties of rice, wheat, chickpea, brinjal, cucumber etc, tissue culture propagated planting materials of pineapple and banana, arsenic mitigator, liquid biofertilizer formulations, nanofertilizers, precision nitrogen management tools (SPAD, Greenseeker and Leaf Colour Chart) and heat tolerant *Trichoderma*, fruit fly trap, dry flower products were displayed and explained by Prof (Dr) Ajoy Kumar Singh, Hon'ble Vice-Chancellor, BAU. Hon'ble Chief Minister expressed his satisfaction over BAU activities and congratulated Hon'ble Vice Chancellor, BAU.



BAU Sabour Telecasted Global Potato Conclave

A total of 1016 scientists, non-teaching staffs, students and farmers from different colleges and KVKs of Bihar Agricultural University, Sabour participated and telecasted in Global Potato Conclave addressed by Hon'ble Prime Minister Shri Narendra Modi on January 28th through video conferencing. Feedback of farming community was very much encouraging and it was a great motivation to the participants.



Govt. of India will Confer e-Governance Award to University

The university will be awarded the e-Governance Award during 23rd National Conference on e-Governance (NCEG 2020) will be held at Mumbai, Maharashtra during February 7th-8th 2020. The University is selected among several state departments and other agencies on count of outstanding contribution of the university in the area of YouTube Videos on agriculture seen across various nations of the globe. The university is selected under Educational and Research Institutions Category-IV. The theme of presentation was ICT based e-extension in Agriculture. Well equipped media center, green-FM and video-conference facilities of the university connects larger farming community at instant which facilitate rapid dissemination of improved agro-tech. The national awards for e-governance is presented in the conference to recognize and promote excellence in implementation of e-governance initiatives. Department of Administrative Reforms and Public Grievances (DARPG) along with Ministry of Electronics and Information Technology (MeitY), Government of India in association with one of state/UT government organizers the National Conference on e-Governance since 1997.

BAU Sabour Joined Together for the Great Human Chain

An initiative called Jal-Jeevan-Hariyali was taken by the Government of Bihar for marking the common people aware of water storage. Under this mission, the structures of water storage such as ponds, canal, pines and their renovation will be done. The public wells will be marked and renovated. Furthermore, the blotting/recharging structure alongside all public wells, hand pumps, tube wells will be constructed. Similarly, construction of check dams and other water harvesting structures in small rivers drains and water storage areas of hilly areas will be done. Overall, the peasants will be encouraged for plantation and other programs related to the plantation campaign will be organized. Similarly, the farmers will be promoted for the use of alternative crops, drip irrigation, organic farming and other new technologies with less dependence on irrigation.

Addressing this mission and different social issues the Bihar Agricultural University, Sabour

joined together and supported to make the event success. In this connection, the entire faculty- and non-faculty-staff, and students led by the H'ble Vice-Chancellor hold hands of each other to form a human chain. This program was scheduled on January 19th. Altogether, about 845 persons appeared in this movement and made a chain starting from the Bhagalpur Engineering College, Rani Talab to the main gate of the Bihar Agricultural College, Sabour. The program was coordinated by Director Students' Welfare, BAU Sabour.

BAU Sabour is also supporting this mission by participating in a program called Climate Resilient Agriculture Program whereby the adaptations or modifications are being done to address the cultivation according to climate. Under this program the farmers of Bhagalpur and Banka are practising the disseminated technologies like zero tillage, direct-seeded rice, raised-bed planting, water management etc.



Plant Breeding and Genetics of BAC Sabour Organising 21-day Training

On January 16th, a 21-day course was started at the headquarters of BAU Sabour. The inaugural program was graced by the H'ble Vice-Chancellor, BAU Sabour. This is an ICAR funded course which is being operated by the Department of Plant Breeding and Genetics of BAC Sabour. The title of this course is 'Current Application, Challenges, and Perspective of Genomics Assisted Breeding for Crop Improvement' which will be wrapped-up by February 25th. Participants from various states of India have joined to learn how the bad effect due to changing climate can be minimised by developing resistant varieties through genomics-assisted breeding. This course is being directed by Dr IS Solanki, Director Research and coordinated by Dr Birendra Singh and Dr Ravi Shankar Singh.



KVK Bhagalpur Organised Former Trainee Farmers Conference



Smt. Kahkashan Perween, Hon'ble Member of Rajya Sabha had inaugurated newly constructed road and the 'Former Trainee Farmers Conference' on climate friendly agriculture programme on January 27th. The programme was chaired by Prof (Dr) Ajoy Kumar Singh, Hon'ble Vice-Chancellor of the university in gracious presence of Dr RK Sohane, DEE, BAU Sabour, Dr RN Singh, ADEE, BAU Sabour and Dr Vinod Kumar, Senior Scientist and Head, KVK Bhagalpur. Guests present on this occasion said that there is a need for climate friendly agriculture. Farmer should use zero tillage technique, raise bed techniques, drip & sprinkler

irrigation and use of organic fertilizers. These techniques will keep the environment clean and farming will be profitable. At the same time, it was inspired to the farmers to plant all kinds of trees, big and small, in non cropped area around their house. Chief guest also emphasized that every plant growing on the earth has its own temperament, quality, some gives fruits, some gives flowers, some plants serve as medicine. Therefore, make sure to plant trees as per the place as possible. Hon'ble Member of Rajya Sabha also advocated for adoption of climate friendly agriculture. To make this programme ever memorable, perennial trees were planted by the dignitaries. A total of 152 farmers participated this important programme. Hon'ble Vice-Chancellor appreciated all the scientists for organising this programme. All the scientists of the KVKs enthusiastically work hard to make this programme a grand success.



BAGRI & SABAGRI Jointly Organised Workshop on 'Strengthening of Agri-incubation Environment and Capabilities'

A workshop on "Strengthening of Agri-incubation Environment and Capabilities" was organized at Bihar Agricultural University, Sabour on January 22–24. The workshop was jointly organized by Sabour Agri-incubator (SABAGRI) and Bihar Agricultural Development and Reforms Project (BAGRI). A group of scientists of the university and trainees of agricultural entrepreneurship training participated in this workshop. The workshop was academically and practically elegant with the interactive presence of Prof (Dr) Ajoy Kumar Singh, Hon'ble Vice-Chancellor of the University; Dr Tim Chancellor of Greenwich University, London, Director of Capacity Strengthening and Partnerships, Prof. John Linton, Business Director and Dr KPC Rao, Senior Advisor, BAGRI. Dr Tim discussed the purpose of the workshop and expressed his sincere thanks to the Vice-Chancellor of the university for organizing this important workshop in Sabour. In the workshop, topics like the nature of agricultural incubators, innovation of entrepreneurship, challenges, requirements of agricultural incubators, business models, availability and management of finance, market management, intellectual property rights etc. were discussed in the context of Bihar state. The workshop was inaugurated by Dr RR Singh, Dean (Ag), BAU Sabour. Hon'ble Vice-Chancellor congratulated BAGRI & SABAGRI for holding such important workshop and expressed satisfaction that the scientists of the university would



have benefited from it and the university's incubation program would get a new direction and strength. BAU Sabour bagged Agri Incubator Project last year from the Ministry of Agriculture and Farmers Welfare, Government of India and it is named as SABAGRI in BAU Sabour. The main objective of this project is to create an ecosystem for the development of agricultural entrepreneurship in the state and provide training and guidance to aspiring entrepreneurs. The workshop was jointly coordinated by Mr Avinash Kumar, Manager and Ms Nivedita Pooja, Advisor, BAGRI and Dr MK Wadhvani, Chief Investigator and Dr M Rahman, Co-Investigator, SABAGRI. It was said to create a network of state incubators in the workshop so that the resources can be properly utilized for the development of entrepreneurship in the state.



Training on Beekeeping under Self Finance Scheme

A six-day training programme on 'Beekeeping under Self Finance Scheme' for aspiring rural youth was successfully organized at Beekeeping-cum-Honey Production Unit of the university, on January 13-18th. The participants were trained on various aspects of beekeeping technologies like importance and scope of honey bees and beekeeping, identification of different products, different species, castes, life stages, colony organization and developmental period of honeybees, handling of bee hives, extraction, processing and storage of honey and other hive products, artificial queen production, management of disease and enemies of honeybees, seasonal and specific management, economics from beekeeping, cross pollination by bees and other aspects. A total thirty five participants from Bihar and neighbouring states actively and enthusiastically participated and successfully



completed the training. In the valedictory session, Dr SN Ray, Chairman, Department of Entomology, distributed certificates among the participants while the training was coordinated by Dr Ramanuj Vishwakarma, Asstt. Prof. (Entomology) & Nodal Officer of Beekeeping-cum-Honey Production Unit.

Certificate Course on Organic Certification at SSAC, BAC Sabour

A 30-day training programme on Organic Farming Certification was inaugurated in the Department of Soil Science and Agricultural Chemistry on 20th January. The training is being organised by the Directorate of Extension Education in collaboration of Department of Soil Science and Agricultural Chemistry and Regional Centre for Organic Farming (RCOF), Patna. There are 34 post graduate students from different disciplines who have completed their course work and aim to become an organic entrepreneur in future. The training was inaugurated by Dr RK Sohane, Director Extension Education in the presence of Dr RR Singh, Dean (Ag), Dr PK Singh, Director Seeds & Farms, BAU Sabour, Dr Abhay Mankar, Dy. Director (Training), Dr Anshuman Kohli, Chairman, SSAC, Dr Jagat Singh, Sri SR Ingle, Chairmen of different departments, faculty members, and participants of this training programme. The programme aims to make the participants aware of the various processes involved in registration and certification of organic farms and produces. The programme is being coordinated by RCOF, Patna and convened by Chairman, SSAC. The trainees will be evaluated by the experts from RCOF, Patna before declaring them as certified

trainers. The training will end on February 18th with distribution of certificates to successful participants.





Desh Prem Diwas Celebrated at BPSAC Purnea

Desh Prem Diwas was organized by the NSS Unit of BPSAC Purnea as 123rd birth anniversary of the great freedom fighter Netaji Subash Chandra Bose. At initial of the programme the Associate Dean-cum-Principal, BPSAC Purnea and all other faculty members and students offered flower of tribute to a photograph of Netaji Subash Chandra Bose. At this occasion, Associate Dean-cum-Principal, Dr Paras Nath said that this day is celebrated by all NSS Units established in educational institutes situated in India. He explained the life-history of beloved Netaji and his contribution as freedom fighter in the Indian National Movement. On this occasion other faculty members of BPSAC, Purnea namely Drs JN Srivastava, Janardan Prasad, Pankaj Kumar Yadav, Ravi Keshari, Ruby Saha, Tapan Gorai, and all teaching- and non-teaching-staff actively participated in this programme. Besides these the following



students namely Mr Ritik, Mr Gulsan, Mr Himanchal, Mr Abhisekh, Mr Ankit, Mr Suraj, Mr Gaurav, Mr Vijay, Mr Mayank, Miss Shivangi Gupta, Miss Muskan, Miss Riya, Miss Parul, Miss Payal, Miss Komal and Miss Sonam also actively participated. Vote-of-Thanks was extended to participants by Mr Mayank Kumar Sinha (8th semester).

NCoH Noorsarai organized One-day Crop Seminar

At NCoH Noorsarai, one-day crop seminar was organized on January 13th on the theme of 'How to double the income of the farmers through horticultural crops'. The seminar was co-sponsored by DD, Patna in which dignitaries of DD Patna and all the scientists of NCoH Noorsarai participated. The Assoc. dean-cum-Principal, Dr PK Singh chaired the seminar in the gracious presence of Hon'ble district judge of nalanda.



NCoH Noorsarai Organized Personality Development Programme

Three-day training programme was organized especially for SC-students at NCoH Noorsarai in which 13 students of the college were beneficiaries. The programme was led by the Nodal officer, Dr Mahesh Kumar, Asstt. Prof. (Hort.).



Digital Account Opening Camp Organised at BPSAC Purnea

'Digital Account Opening' Camp was organised at Bhola Paswan Shastri Agricultural College, Purnea with active participation of students, teachers and non-teaching staff of the college on January 31st. The camp was inaugurated by Dr Paras Nath, Associate Dean-cum-Principal of the college and he told 'India is going digital at an unprecedented pace and we are taking significant strides in the digital banking space'. During this camp forty one digital saving accounts of first semester BSc (Ag) students was opened. Sri SK Chaudhary, Branch Manager, SBI Purnea City Branch and Officer Miss. Premlata Kumari narrated the omni-channel platform of this digital account agglomeration



with number of e-commerce platforms. Vote of thanks was extended to participants by Dr Pankaj Kumar Yadav, Asstt. Prof.-cum-Jr. Scientist (Soil Science).

BPSAC Purnea Celebrated National Youth



The National Youth Day was celebrated on January 12th, by NSS Unit of BPSAC Purnea to commemorate the birth anniversary of great philosopher, educationist and social worker Swami Vivekananda. In this occasion, Dr Paras Nath, Associate Dean-cum-Principal of the college, delivered lecture on glorious work of Swamiji on international brotherhood and its implication in present era while youths are engulf in materialism and isolation of daily life. He told on path of Swami Vivekanand "Arise, awake and stop not till the goal is achieved". The enthusiasm was appealing. The students held handmade posters showing their brilliant

artwork and the changing face of the youth. The vibrant participation of all the students, teachers and non-teaching staff of the college, make this celebration ecstatic.

Editorial Board

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Dr Ajoy Kumar Singh

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Dr Chandan Kumar Panda

Dr Nintu Mandal

Dr Abhijeet Ghatak

Designed by

Mr Brajesh Kumar Tiwari

Upcoming events

6th Convocation

दीक्षांत समारोह

Tuesday
मंगलवार

18 February, 2020
18 फरवरी, 2020

11:00 AM
11:00 पूर्वाह्न

● **LIVE** : www.youtube.com/bausabour



Conservation Agriculture-based Sustainable Intensification (CASI)



Conservation Agriculture-based Sustainable Intensification (CASI) includes the adoption of zero or minimum tillage, combined with mechanised crop establishment, maintenance of ground cover, crop rotations & diversification and improved nutrition management. CASI based crop management practices improve crop productivity and profitability while reducing energy, water and labor requirements, and greenhouse gas emissions. CASI also contributes to improvement of soil health, improvement & biodiversity and sustainable agricultural ecosystems which lead to improve rural households' livelihoods.

This course deals with portfolios of CASI and machines used for CASI. We will be also dealing with agronomical management, CASI & its challenges and advantages. This course will also cover how start-ups and business models can be created to successfully implement CASI service provision businesses.

Course Content

- Portfolios of CASI
- Machines for CASI
- Agronomical Management under CASI
- CASI and its challenges
- Advantages of CASI
- Business Models

Course Audience

Students/Agri-professionals
Rural Youth/Farmers
Faculty Members/Agriculture Scientists
Professionals working in Department of Agriculture/Private Institutions
Entrepreneurs/Start-ups
NGOs in Agriculture

Outcomes of this Course

Participants will be able to know about fundamentals of CASI and its advantages
Participants will get essential skills related to CASI based farming

Certificates

Qualifying students will be given certificates based on their involvement and performance. Participation certificate and Competency certificate will be issued by the Centre for Continuing Education (CCE), IIT Kanpur, India Commonwealth of Learning (COL), Canada and Bihar Agricultural University, Sabour, Bhagalpur.

(This course will be available in Hindi and English)

COURSE NAME

Conservation Agriculture-based Sustainable Intensification (CASI)

START DATE

February 12, 2020

DURATION

6 Weeks

PREREQUISITES

None

REGISTRATION

Open and free of charge

Instructors

Dr. Ram Datt, BAU, Sabour
Dr. Sanjay Kumar, BAU, Sabour
Dr. M.K. Gathala, CIMMYT, Bangladesh

Operations

Dr. Neeta Singh
Ms. Revathy KT
Mr. Deepak Kumar
Mr. Abhishek Shukla
Mr. K.K. Dubey
Ms. Sugatha Chaturvedi
Mr. Aditya Vadlamani
Ms. Aparna Gaikwad
Mr. Avinash Karnick

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