



Happening at BAU

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Education ! Research ! Extension ! Training



From the Desk of the Vice-Chancellor

Holistic development of farming community is the outcome of pragmatic convergence of teaching, research, extension and training by the agricultural university. Bihar Agricultural University, Sabour is committed for this, since its establishment. BAU celebrated 70th Republic Day in befitting manner. It gives me immense pleasure to know that the 200th issue of Happeing at BAU is being published in sytsematic, timely and uninterrupted manner. Hon'ble Agriculture Minister Visited NCOH at Nalanda during a Training on Beekeeping. 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.

Focus of the University

- ➡ **70th Republic Day Celebration at BAU and its Constituent Colleges and Units**
- ➡ **National Workshop on "Diseases of Makhana: Challenges towards Diagnosis and Management" at MBAC, Agwanpur**
- ➡ **Hon'ble Agriculture Minister Visited NCOH at Nalanda during a Training on Beekeeping**

70th Republic Day Celebration at BAU and its Constituent Colleges and Units



BAU celebrated 70th 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 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 JRF/SRF/NET and ARS. Students should also be encouraged for getting



prestigious Prime Ministers Fellowship Programme. He urged for development of grading, packing and marketing system of organic produce in the villages covered under organic corridor. Development of Tal and Diara area with suitable management practices need to be prioritized. Accelerated progress for establishment of Advanced Horticulture Research Centre and Sericulture Centre at DKAC, Kisanganj is needed. Need for patenting of innovative technologies of the university need to be prioritized. All departments, KVK and Farm participated in Jhanki on thematic area of organic farming and promotion on nutri-cereals. Cultural programme was also organized and large number of students from schools participated in the events.



National Workshop on “Diseases of Makhana: Challenges towards Diagnosis and Management” at MBAC Agwanpur



The two days National Workshop on “Diseases of Makhana: Challenges towards Diagnosis and Management” was organized by MBAC, Agwanpur in collaboration with Indian Phytopathological Society, New Delhi at MBAC Agwanpur on 11th and 12th January, 2019 in which dignitaries & delegates from different states of India and more than 100 farmers from different areas of Koshi region of Bihar participated in the workshop. The workshop was inaugurated with lighting of lamp by Dr. Ajoy Kumar Singh, Honourable Vice Chancellor Bihar Agricultural University, Sabour, Dr. Umesh Singh, Associate Dean-cum-Principal, MBAC, Agwanpur, Dr. Dinesh Singh, Secretary, IPS, New Delhi, Dr. Vaibhav Kumar Singh, Treasurer, IPS, New Delhi, Dr. I. S. Singh, Head & Senior Scientist, ICAR-RCER, Research Centre for Makhana, Darbhanga, Dr. Gireesh Chand, Zonal President, IPS, New Delhi and Dr. Santosh Kumar, Organizing Secretary of the workshop. Dr. Kumar focused on the relevance, need and structure of the workshop. Dr. Ajoy Kumar Singh, the Chairman-cum-Chief Guest of the occasion emphasized over the scientific cultivation of makhana with protected cultivation in his presidential speech. He advised the farmers to do cultivation in pool and make federation to procure high return price of their produce.

Dr. Umesh Singh, Convener of the workshop shaded light over the holistic view of makhana cultivation. Dr. Dinesh Singh, Secretary and Dr. Vaibhav Kumar Singh, Treasurer of IPS, New Delhi and Guests of Honour of the workshop,



described the various ongoing activities of the IPS and their scope in the protection of makhana disease. Dr. I. S. Singh another Guest of the honour of the occasion described pros-and-cons of makhana cultivation in the northern Bihar. They have also expressed their concern on increasing use of chemicals in makhana cultivation and proposed to evolve practices to modify the current scenario of plant disease and insect pest management. A laboratory manual entitled “Basic Laboratory Techniques in Plant Pathology” (edited by Santosh Kumar,

Erayya, & Gireesh Chand) and Souvenir-cum-Abstract of the National Workshop were released during inaugural session of the workshop. The workshop was convened in three sessions; 1. Economic important and plant protection, 2. Post harvest management, and 3. Demonstration of land and farmer interaction. The third session was followed by valedictory session in which Rajesh Kumar Singh, DDC, Saharsa, Dr. Dinesh Kumar Singh, DAO, Saharsa and Santosh Kumar Suman, DHO graced the occasion and appreciated all the delegates, participants and farmers for their presence in this successful two days National Workshop. Certificates were given to the participants and best presenters of the session. The Workshop was ended by the vote of thanks given by Dr. Umesh Singh, Convenor of the workshop and Associate Dean-cum-Principal, MBAC Agwanpur.



BAU Sabour Organised 21 Days Training for Scientists

A 21-day training for scientists was organised at BAU Sabour during 3rd January to 23rd January 2019. In total, 43 scientists from different units/ colleges of BAU Sabour participated in this training entitled "Advances in Higher Agricultural Education for Quality Assurance and Vocational Opportunity". Sixty six lectures were delivered in this training. A few lectures were delivered by famous agricultural scientists of India, like Dr B Kumar (DRPCA Samastipur), Dr Shakeel Ahmad (ICAR), and Dr Priya Ranjan (ICAR). The training was organised by Dr RR Singh (Course Director)



and Dr Md Feza Ahmad (Course Coordinator) with help of other scientists of BAC Sabour.

Hon'ble Agriculture Minister Visited NCOH at Nalanda during a Training on Beekeeping

On 25th January 2019, Hon'ble Agriculture Minister Dr Prem Kumar attended valedictory function of five days residential training (21-25 January 2019) on Beekeeping at Nalanda College of Horticulture (NCOH) at Noorsarai. The training was funded by the Horticulture Department, Government of Bihar. The third training, out of eight training proposed, was earlier attended by Mr Kaushlendra Kumar, Local Member of Parliament (Nalanda) on inauguration session on 21st January 2019. Hon'ble Minister distributed the Beekeeping Kits and Certificates among the trainees of three districts namely, Munger, Lakhisarai and Jamui besides Nalanda. Dr Prem Kumar, Hon'ble Minister also distributed the Certificates among trainees who had already been participated in the training of 'Gardener' at NCOH under Bihar Skill-development Scheme funded by Mission for Integrated Development of Horticulture and 'Mushroom Training' under BSDM at KVK Harnaut. The event was changed into a sentimental moment when the Hon'ble Minister walked to a trainee (handicapped) Mr Shankar Pandit, to offer his 'Gardener' Certificate, to his seat. Meanwhile, the Minister was congratulated by the farmers of Nalanda to solve their problems within two



days regarding the bank loan for mushroom enterprises. The Training was smoothly run by Mr Beer Bahadur Singh, Assistant Professor (Entomology). The valedictory function was end-up with the Vote-of-Thanks by Associate Dean-cum-Principal, Dr PK Singh.

Seed Production Monitoring Under AICRP (Pulses) and Seed Hub Project



During January, the team of scientists comprising Dr Mankesh Kumar (Chairman), Dr Kiran Kumari, Dr Abhijeet Ghatak, and Ms Kumari Rajani (Nodal Officer) visited different fields of farmers and KVKs at Pipra, Rajaun, Simro, Dhanaura, Sabour, Mokama, Maranchi, Barh, Nalanda, Khagaria and Saharsa to observe the status of chickpea and lentil crops. The crops were sown under AICRP (Pulses) and Seed Hub project. Under this work, the target attainable yield of chickpea and lentil for Rabi 2018-19 is 950 quintals which have grown in about 127 ha. At most of the places the crops were found satisfactory, and advices have been given whenever needed.

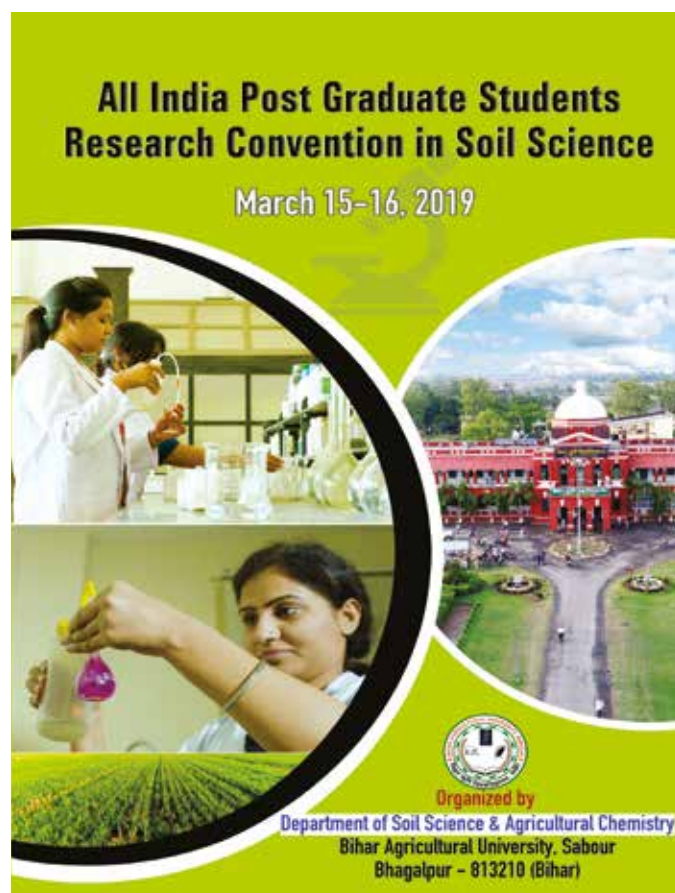
Convocation at BAU Sabour

BAU Sabour is going to organise its 5th Convocation on February 6, 2019. This ceremony will convocate the students who have completed their program within January 15, 2019. Hon'ble Chancellor-cum-Governor, Agricultural Minister of Bihar, Prof. S Ayyappan, former Secretary, DARE, ICAR and Chancellor of Central Agricultural University, Imphal will be preceded over the ceremony. During convocation, the Best Teacher Award will be given. In addition to this, the best students (boy/ girl) will be facilitated with Gold Medal.



All India Post Graduate Students' Convention in Soil Science to be held in BAU Sabour from 15-16th March 2019

First time national endeavor to strengthen Post Graduate Research as PG research is considered to be the budding arena of future research & researchers. It would be the first national platform where PG students would be able to showcase their different paradigms of research activities & this convention will also provide the national exposure of the participants. They will also be privileged to get the advice of renowned Soil Scientists during this occasion. As Soil Science is the confluence of agricultural sciences to basic sciences, this aspect must be nurtured, therefore this event is sub divided in six thematic areas. Almost all the Agricultural Universities and Institutes have already been communicated from our Hon'ble Vice Chancellor's desk and concerned Soil Science departments, conveyed from Chairman, SSAC. This convention also helps to figure out the research gaps of Soil Science related to the overall research programmes under Natural Resource Management.



NCOH Stall Exhibited in Agriculture Mechanization-cum-Product Mela at Rajgir



Kumar and during the visit of stalls, the Minister praised for exhibiting an Integrated Farming system Model by NCOH. Hon'ble Minister listened to the problems of farmers in the implementation of agriculture mechanization in the district through organizing a Kisan Chaupal at the spot.

Agriculture Department, Government of Bihar organized two days (14-15 January 2019) fair at Rajgir. This was a sub-divisional level fair named "Agriculture Mechanization-cum-Product Mela" in which NCOH Noorsarai participated. The Mela was inaugurated by Hon'ble Agriculture Minister, Dr Prem



15 Days (15-29 January 2019) Certificate Course Training Programme on INM for Obtaining Licence for Selling Fertilizers at BPSAC Purnea

At Bhola Paswan Shastri Agricultural College, Purnea Dr. Pankaj Kumar Yadav, Asstt. Professor Department of SSAC, BPSAC Purnea and Nodal Officer-cum-Course Coordinator of INM Training Programme organized 15 days certificate course for fertilizer dealers. The chief guest of Inaugural function was Dr. R. R. Singh Dean (Ag.), BAU Sabour. On this occasion he addressed participants about importance of this programme and said that this programme was launched by the Government of India after report of Parliament Standing Committee on Agriculture to introduce 15 days certificate course on Integrated Nutrient Management (INM) as a qualification for fertilizer dealers. Accordingly, Ministry of Agriculture, Cooperation and Farmers Welfare recently substituted clause 8 (4) of fertilizer control order (FCO) 1985 whereby it has become mandatory for the dealers to undergo a certificate course of 15 days on INM for obtaining a authorization letter for selling of fertilizers. Under the said clause, State Agricultural Universities are empowered to conduct this training programme. Dr. Paras Nath, Associate Dean-cum-Principal, BPSAC Purnea spoke before the gathering of trainees, narrated about that this program and Dr. Pankaj Kumar Yadav enlighten the programme details with complete course curriculum and said that the every day three theory and one practical classes would be conducted by resource person. Total 32 theory classes and 12 practical classes were conducted during this training. Two days exposure visit of Bihar Agricultural University,



Sabour was also organised during this period. During this training, the participants visited different units like Soil Testing Laboratory, Vermi Composting Unit, Azolla Production Unit, BGA Unit, Agricultural Research Farm, Horticultural Garden and Biofertilizer Production Unit. In this training programme different lectures were delivered by soil scientists of different units of BAU Sabour. In valedictory session, Dr. R. K. Sohane, Director Extension Education, BAU Sabour and Director of Research, BAU Sabour Dr. S.S. Solanki graced the programme and distributed certificates to participants. Dr. J. N. Srivastava, Dr. Janardan Prasad, Dr. Pankaj Kumar Yadav, Dr. Anil Kumar, Smt. Anupam Kumari, Dr. Tapan Gorai, and all teaching and non-teaching staff and students of BPSAC Purnea actively participated in this programme. Vote of thanks was extended to participants by Dr. Pankaj Kumar Yadav.



6 Days Training on Coconut Resource Development Organized by Department of Horticulture (Fruit & Fruit Technology), BAU Sabour

Two 6-day trainings were organized by All India Coordinated Research Project on Palms (Coconut) at Department of Horticulture (Fruit & Fruit Tech.). These trainings were on “Preparation of Handy Craft Items from Coconut” and “Friends of Coconut (FoCT)” from 6th to 12th January, 2019 at BAC Sabour. The training was conducted in order to develop skill in particular aspect so that the trainees could generate the income by using skill. Both the trainings were sponsored by Coconut Development Board, Regional Office, Patna. The training was organized by Dr. Ruby Rani, under the guidance of Chairman, Dr. Feza Ahmad. Dr. Pawan Kumar also assisted during the training programme.



“Preparation of Handy craft items from Coconut”

The training was on making useful items from the waste product of coconut to the useful and decorative items. 15 women and young lady were selected with the help of Mrs Anita Kumari, SMS, H.Sc., KVK Sabour for training and they were trained by the Master trainer Sri Nikunj Bihari. Different attractive products were made by the participants during 6 days training from coconut shell like pen stand, soap case, flower vase, tissue paper container, pen stand, spoon mobile stand etc. On last day of training each trainees were given certificate, Rs. 1500 as stipend and tool kit used for making these items. On the basis of performance of the trainees they were awarded with first, second and third prize. Training was very fruitful as the trainees were very enthusiastic to take this venture for their income generation. Deputy Director, Coconut Development Board, Patna Sri Amiye Deonath was suggested to conduct some more training on this aspect in the university. Dr R.K Sohane, DEE, BAU Sabour appreciated the training programme during valedictory function and invited the master trainer Sri Nikunj Bihari for upcoming Kisan Mela.

Training on “Friends of Coconut (FoCT)”

Seeing the problem of coconut climber in the state, Dr. Ruby Rani, PI, AICRP, Palm (Coconut) requested to CDB, Patna for organizing this training on “Friends of Coconut (FoCT)” in which 20 trainees were selected and complete knowledge of coconut cultivation was given to participants. They were trained to climb the coconut tree using special climbing machine covering life insurance policy of each participants for one year. Lectures like first aid, risk insurance and decision making ability was also delivered during the training in addition to scientific method of coconut cultivation including nursery management and plant protection measures. All the trainees were tested for their learning and climbing ability and 1st, 2nd and 3rd prize was given to the trainees based on their performance. After completion of the training, certificate and one climbing machine was given to each participant. By using this machine the participants were able to climb and get down from the tree within a minute in place of 3-6 minutes. Honourable Vice Chancellor appreciated the training module and said that more training of this kind should be organized for self-employment and income generation of rural youth and women.

21 Days Training Programme/ Refresher Course has been Sanctioned by DST-NRDMS, New Delhi to SSAC, BAC Sabour

Binod Kumar Vimal, Asstt. Prof.-cum-Jr. Scientist, SS & LUP Scheme/ Department of Soil Science and Agricultural Chemistry, BAU Sabour has been recommended as a Course Director and provided financial assistance by the Department of Science and Technology (DST-NRDMS), New Delhi to conduct the 21 days training programme/ refresher course

at BAU Sabour. How to use the geospatial technology in Soil Survey and Land Use Planning, to assess the agricultural and other natural resources and digital mapping process will be emphasised in lectures and practical classes during training programme. More details regarding the above training programme can be accessed on <http://www.dst-iet.in>.

Training on Small-scale Poultry Farming

Three-day training on small-scale poultry farming was organised by the KVK Bhagalpur. This skill-development training was funded by ICAR New Delhi. During the training, the trainees were largely given focus on sanitary practices of the poultry farm, and the management with diseases. Additionally, they were educated about the breeds and production of chicks at small-scale. Moreover, detail information on the development of poultry feed, marketing policies and linking knowledge were given to the participants. The participants were trained for practical utility – in this, they have visited the poultry farm of the university and of local farmers.



The training was helpful in the generation of new self-entrepreneurs. On the eve of its completion, Dr RN Singh, Associate Director of Extension and Education was present. The training was end-up with a vote-of-thanks by Mr Saksham Sinha.

KVK, Patna Organised Farmers' Training-cum-Awareness Programme for Popularising Grass Pea Cultivation in Tal Area of Bihar

Under the ongoing Biotech-KISAN Hub Project, a "Farmers' Training cum Awareness Program for Popularising Grass Pea cultivation in Tal area' was conducted at partnering institution, Krishi Vigyan Kendra, Barh, Patna on 22.01.2019 at Manjhla Bigha of Patna District. Total number of trainees participated in this training program was 237 from Manjhla Bigha and nearest villages of Pandark block including 45 female farmers and 192 male farmers. Dr. B. D. Singh, Scientist & Co-PI of the project was organiser of this training. Dr. Prakash Chandra Gupta, Technical



Assistant (Lab) of KVK, Barh Patna was also present in this program. Ms. Chaitali Kumari, Senior Research Fellow and Mr. Sumant Saurabh, Fellow farmer-cum-project staff assisted to complete the training successfully.

Mushroom Spawn Production Training Programme

Five days vocational training programme on “Mushroom Spawn Production” was conducted at Department of Plant Pathology, BAC Sabour during 7th January to 11th January 2019. The training was organised by Directorate of Extension Education, BAU Sabour which was sponsored by BAMETI, Patna. At the earliest, the training was inaugurated by Dean (Agriculture) whereupon he highlighted the importance of mushroom production in Bihar. During the inaugural session the Deputy Director of Training, Chairman of Plant Pathology and the Coordinator of the training along with other scientists were present. The training was coordinated by Dr Gireesh Chand and he given emphasize on mushroom spawn production technology. He explained to the participants for the quality of large grains which carry a greater reserve of food material to sustain the inoculation of mushroom mycelium until it is established and feeding on new substrate. Whereas, the small



grains provide more inoculum units per gram of spawn. Therefore, if the grains of both types grow well equally, like corn cobs, wooden sticks, rice straw, sawdust, and used tea leaves etc., it was advised to go for the small ones which will penetrate the substrate sooner. Besides cereal grains, due to prohibitive cost, a variety of agricultural wastes also been used for spawn production. The participants were well satisfied with the training and expected to organise such trainings in future.

State Level Training Programme under Biotech KISAN Hub Project organised at BAU, Sabour

Three days training programme under Biotech KISAN Hub Project was organised at BAU, Sabour by the Directorate of Extension Education of the University on January 29- 31, 2019. Scientists, farmers, Kisan Salakar, Agricultural Coordinator from Patna, Lakhisarai, Gaya districts participated enthusiastically to this training programme.

During the three days training programme, scientists discussed the cultivation practices of grass pea (*Lathyrus*) and its seed production techniques, insect pest management. Finally, participants share their views to increase area under lahtyrus cultivation in Bihar state.



4th AGRIVISION-2019 National Convention on Integrated Agriculture-Prosperous Bharat 28-29 January, New Delhi

A team of scientist led by Dr. Rajesh Kumar, Director Student's Welfare, BAU along with Post-Graduate students participated in the 4th AGRIVISION-2019, held at NASC, Complex, New Delhi. Deliberations on sustainable agriculture and role of agri-graduates for disseminating location specific and effective technologies at grassroots level was discussed. Entrepreneurship development in agricultural sectors was also discussed in one of the technical session. Discussion on role model in agricultural sector was also discussed and Dr. Rajesh Kumar, DSW of BAU was also selected as one of the role models.



Dear Friends,

We are presenting before you the two hundred 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

Superannuation

Prof. (Dr.) Bharat Chandra Saha
DRI-cum-Dean PGS, BAU Sabour

Prof. (Dr.) Arvind Kumar

Regional Director, ARI, Patna

Prof. (Dr.) Siya Ram Singh

Chairman, Extension Education, BAU Sabour

Dr. Asan Singh

Associate Professor-cum-Senior Scientist
(Extension Education) and Incharge, Irrigation
Research Station, Bikramganj

Upcoming events

Announcement of Kisan Mela-2019 Bihar Agricultural University

Bihar Agricultural University, Kisan Mela-2019 will be held on February 23-25, 2019. The theme of the Kisan Mela is 'Farmers' Prosperity through Organic Farming and Nutri Cereals'. The Directorate of Extension Education will organise the Kisan Mela. For any query related to participation, exhibition, sponsorship etc., one may contact directly to the DEE office of BAU.



Month of March

National Seminar on
**Recent Advances
in Agriculture for
Sustainable Rural
Development
(RAASRD-2019)**
held during 15-
17 March, 2019
at Veer Kunwar
Singh College
of Agriculture,
Dumraon.

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