



# Happening at BAU

Issue 211

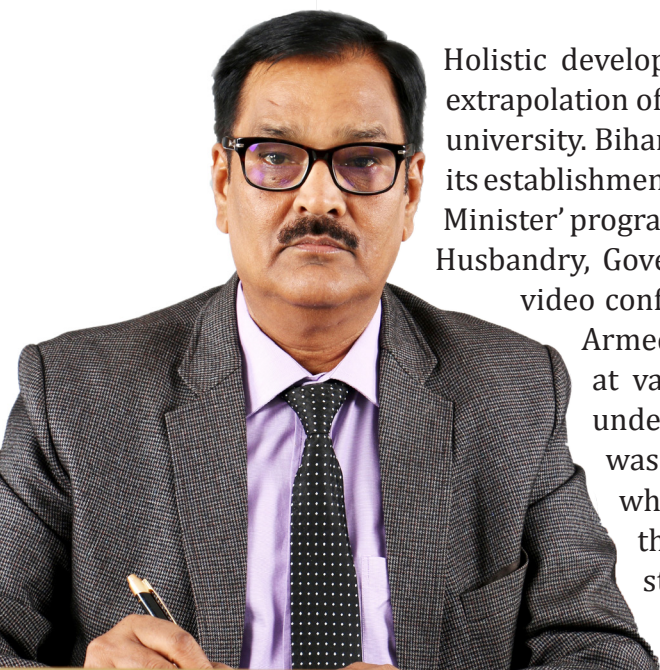
Education ! Research ! Extension ! Training

December 2019



## 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. On December 5<sup>th</sup>, under the 'Farmers' View with Agricultural Minister' program, Dr Prem Kumar, Hon'ble Minister of Agriculture and Animal Husbandry, Government of Bihar interacted with farmers of Bihar through video conferencing facility. Agricultural Education Day, World Soil Day, Armed Force Flag Day and World Human Rights Day also celebrated at various units of BAU. Agri-preneurship Orientation Program under RKVY-RFTAR, Ministry of Agriculture and Farmers Welfare was organized and MoU with Reliance Foundations was signed whereupon the farmers will be awared with current information through voice message. 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 tenth 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

- » H'ble Agricultural Minister of Bihar Interacted with Farmers
- » Dr Prem Kumar, Hon'ble Agricultural Minister Visited BPSAC Purnea
- » World Soil Day Celebrated at BAU Sabour
- » Agri-preneurship Orientation Program
- » MoU Between BAU Sabour & Reliance Foundation



## H'ble Agricultural Minister of Bihar Interacted with Farmers



On December 5<sup>th</sup>, under the 'Farmers' View with Agricultural Minister' program, Dr Prem Kumar, Hon'ble Minister of Agriculture and Animal Husbandry, Government of Bihar interacted with farmers of Bihar through video conferencing facility. Video conferencing in all these districts was linked through the media centre of Bihar Agricultural University, Sabour. In this event, 15 KVKs operated under Bihar Agricultural University, Sabour came together to arrange this program. The peasants and farmers came to the KVKs for the interaction. The farmers gathered in KVKs namely Arwal, Aurangabad, Banka, Bhagalpur, Gaya, Katihar, Khagaria, Kishanganj, Lakhisarai, Munger, Nalanda, Patna, Purnia, Rohtas and Saharsa and joined a fruitful discussion with

H'ble Minister. This led to knowing the problems and innovations made by the farmers amongst different districts. One by one the farmers of all the districts placed their issues related to farming and the H'ble Minister assured the farmers for solutions in coming time. On this occasion, the H'ble Minister gave entire information to the farmers and advised to reject the practice of crop residue burning. He paid emphasis on crop residue management and also informed the farmers about the subsidy to be given on the purchase of related machines. On this occasion, H'ble Vice-Chancellor of BAU Sabour along with Director of Extension Education remained attached. In a two-hour video conferencing, over 1200 farmers interacted directly with the H'ble Minister.

## Dr Prem Kumar, Hon'ble Agricultural Minister Visited BPSAC Purnea

Dr Prem Kumar, Hon'ble Minister (Agriculture, Animal and Fisheries), Govt. of Bihar visited at BPSAC Purnea on 15.12.2019 and inaugurated Seed Storage Godown of the college. Dr Kumar also attended valedictory programme of the fifteen days certificate course on INM for fertilizer dealers and distributed the certificate among the trainees in cordial presence of Dr RK Sohane, DEE BAU Sabour, Dr RR Singh, Dean (Ag), Dr Paras Nath, Associate Dean-*cum*-Principal, BPSAC Purnea. The Minister told that Agri-input Dealers play important role in extension service to the farmers and the dealers should motivate the farmers for maintaining soil health and fertility. Dr Sohane appreciated the college for organising such training in a row for forth times and hope college will organize such training in future. Dr RR Singh, Dean (Ag) considered that this type of training is important for input dealers and farmers. Dr Pankaj Kumar Yadav, BPSAC Purnea

and Nodal Officer-*cum*-Course Coordinator INM Training Programme enlighten the programme details with complete course curriculum and said that thirty trainees from different districts of Bihar successfully completed the training programme. In feedback, the trainees viewed that this type of training should be organised on regular basis for updating their knowledge.





## “Solum Celebration”: A celebration of World Soil Day-2019



The Department of Soil Science and Agricultural Chemistry, Bihar Agricultural University, Sabour in association with the Bihar Chapter of the Soil Conservation Society of India and Indian Society of Soil Science, Sabour Chapter organized a series of events under the banner of “Solum Celebration” to celebrate the World Soil Day -2019 during 05-06 December, 2019.

The celebration started with extramural lectures by three renowned Soil Scientists/Academicians namely, Dr. P. K. Patra, Assoc. Professor, Dept. of Soil Science & Agricultural Chemistry, BCKV; Dr. Sunil Kumar Choudhary, Retd. Professor, Dept. of Botany, Tilkamanjhi Bhagalpur University and Dr. B. B. Mishra, Retd. Professor, Dept of Soil Science & Agricultural Chemistry, BAU, Sabour & Vice-Chair, Commission 1.4 (Soil Classification), International Union of Soil Sciences; 2018-22. Hon'ble District Magistrate, Bhagalpur Sh. Pranav Kumar was the Chief Guest of the function and Hon'ble Vice Chancellor, BAU, Sabour, Dr Ajoy

Kumar Singh, presided over the function. They formally inaugurated the popular poster displays and then made detailed observations on the popular posters prepared and displayed by the post graduate students. The popular posters highlighted the theme of this year's World Soil Day – “Stop Soil Erosion, Save our Future” among other informative and farmer pertinent issues. A special World Soil Day -2019 issue of the Wall Magazine of the Department of Soil Science and Agricultural Chemistry was also unveiled on the occasion. A farmer student interaction was held on the occasion in which the students interacted with the invited progressive farmers of the area and got acquainted with the field problems in soil management. Dr Sunil Kumar Choudhary focussed in his lecture on the impact of soil erosion, pollution, and conservation on highly endangered Gangetic ecology. Dr. P.K. Patra gave a brief overview on the various sources and methods of soil pollution and conservation. A short film made by the PG students was screened to showcase various activities of department in line with the theme of this years' theme of World Soil Day. A field trip to a village pond in Kola Khurd village was organized on 6<sup>th</sup> of December, 2019 for farmers and local administration where the Hon'ble District Magistrate, Bhagalpur Sh. Pranav Kumar along with several farmers were appraised about the approaches for sustainable management of village ponds for ensuring availability of surface harvested rainwater for animal husbandry and agriculture.





## Agri-preneurship Orientation Program



Agri-preneurship Orientation Program (held from December 22<sup>nd</sup> to December 20<sup>th</sup>) under Agri-Business e-incubator Project funded by RKVY-RFTAR, Ministry of Agriculture and Farmers Welfare, Government of India the RIC was organised on December 20<sup>th</sup>. In this meeting, 13 trained candidates selected under the program were presented their agricultural entrepreneurship set-up and future plans before the committee. The meeting of the RIC was held under the chairmanship of the Director of Research, Bihar Agricultural University, Sabour. At the meeting, Dr Ram Parvesh Singh-Director, Agro Economic Research Centre under Tilakamanjhi Bhagalpur University; Mr Shankar Kumar Chaudhary-Deputy Director Agriculture of Bhagalpur; Mr Abhishek Sharma-National Institute of Agricultural Marketing, Jaipur praised the innovative subjects selected and presented by the trainees. They also mentioned that the state of Bihar has immense potential for agricultural entrepreneurship in agricultural areas.

The chief guest of the event was H'ble Vice-

Chancellor of Bihar Agricultural University, Sabour. The Chief Guest-cum-Vice Chancellor said in his address that this project is particularly needed in the state of Bihar. Most of the agricultural produce of the state is sold as a raw material in other states. It is a matter of great happiness that the youth of the state are taking initiative in this field. The university will continue to provide all kinds of necessary guidance to aspiring entrepreneurs along with this scheme. Dr Ugramohan Jha, Professor of Economics, retired from Bhagalpur University presided over as a special guest. Dr Jha thanked the H'ble Vice-Chancellor for inviting him on the occasion. In his address, he wished for the importance and outstanding contribution of the project to the state. All the Directors, Controllers, Registrar and Head of various Departments were present at the ceremony. Director of Research, Dr IS Solanki wished the bright future of the participants. The concluding ceremony and RIC meeting was conducted by Dr MK Wadhvani and Dr M Rahman, the Principal Investigator and Co-Principal Investigator, respectively of the project.





## MoU Between BAU Sabour & Reliance Foundation

Bihar Agricultural University, Sabour made an MoU with Reliance Foundation on December 12th to provide reliable information about the livelihood in the mobiles of the farmers. To improve their livelihood the foundation will broadcast information, a voice message, collected through different wings of the university. The coverage of information will be on certain topics like farming, soil management and agronomical practices, management of pests and diseases, information of weather, mass production technologies and processing activities etc that to be broadcasted on time to time. Also, other important information, which is associated with natural calamities like drought, heavy rain, flood etc will be dealt. It will also be discussed on the steps to be taken on such natural disasters so that the losses can be minimised. Under this MoU, the university may also announce and/or arrange certain plans, training programs which may directly connect the farmers. The foundation will receive help from the university in order to obtain human resource and views of experts.

Charing this event, the H'ble Vice-Chancellor expressed his view mentioning that truly this is an agreement between the technologies and



science. In the coming time, the university and the foundation may work together for development of agriculture in Bihar. This MoU will certainly bring the acceleration in exchange of information that will work to benefit the farmers. The Chief Finance Officer of the Reliance Foundation, Mr Sachin Madikar, made a mention that information technology is achieving the speed of the geometrical sequence. There are immense possibilities of information and communication technologies in the area of agriculture. From BAU Sabour DEE-Dr RK Sohane, Director Planning-Dr Arun Kumar, Dean (Agriculture)-Dr RR Singh, DRI-cum-Dean (PGS)-Dr SN Singh, Registrar-Dr M Haque, DSF-Dr PK Singh, ADEE-Dr RN Singh, Principal (BAC)-Dr RP Sharma, and from Reliance Foundation, Coordinator for Bihar Jharkhand-Praveen Gudd, Robin, Dilip Rai etc were present.

## Scientists Received Outstanding Agronomist Award and Best Oral Paper Presentation Award

Dr SK Gupta, Agronomy-BAC Sabour received "Outstanding Agronomist Award" in the 3<sup>rd</sup> National Conference on Promoting and Reinvigorating Agri-Horti & Technological Innovations (PRAGATI-2019) at Dhanbad, Jharkhand during December, 24-25, 2019. Dr Gupta also received Best Oral Paper Presentation Award in the seminar for his research work on "Strategies to Increase Quality and Availability of Green Fodder Production in Eastern Region of India".





## Fourth 15 Days Certificate Course Training Programme on INM

Department of Soil Science and Agricultural Chemistry, Bhola Paswan Shastri Agricultural College, Purnea organized fourth fifteen days (13 to 27 December, 2019) certificate course for fertilizer dealers. Dr Paras Nath, Associate Dean-*cum*-Principal, BPSAC Purnea gave welcome address. Dr RR Singh, Dean (Ag), BAU Sabour spoke before the gathering of trainees, narrated about the program. On this occasion he addressed participants about importance of balance nutrition of crops as well as soil health. In this programme chief guest Prof (Dr) Ajoy Kumar Singh, VC BAU Sabour said that the this training was launched by 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.

Dr Pankaj Kumar Yadav, BPSAC Purnea and Nodal Officer-*cum*-Course Coordinator INM Training Programme enlightend the programme details with complete coure curriculam and said that the every day three theory and one preactical classes will be conducted by resource person. Total of 32 theory classes, 12 practical classes and other 19 extra classes were conducted by experts



of Soil Science, Agronomy, Horticulture, IFFCO, Bank officials, Account experts of college and KVKs will be conducted during this training. Two days exposure visit was conducted during this training participants visited namely KVK-Jalalgarh and get practical experiance about vermicomposting unit, *Azolla* Production unit, BGA unit, Agricultural Research Farm, Mushroom unit, Gardens of different units. Trainees was also visited for practical work at District Soil Testing Laboratory, Purnea and Gromor Nursery, Purnea. Dr Pankaj Kumar Yadav, BPSAC Purnea nominated as Nodal Officer-*cum*-Course Coordinator.

## Standardization of Planting Dates of Exotic Vegetables for Zone IIIB of Bihar

At present under the able guidance of Regional Director, ARI Patna a state non plan project entitled "Standardization of planting dates of exotic vegetables for zone IIIB of Bihar" is running in this institute. This project comprises 5 different exotic vegetables such as Broccoli, brussel sprouts, red cabbage, Chinese cabbage and lettuce. These vegetables are tested here for the first time in terms of research. The transplanting of these vegetables had been completed one month twenty days before and the plants are in good healthy condition. Lettuce is ready for its first harvesting and the rest of the vegetables are in their fruit initiation stage except the Brussel sprouts though it's plants is in healthier condition. Brussel sprouts is a totally new crop to this locality. If these vegetables come out successfully then it will be a boon for the farmers of Bihar as these vegetables are rich source of nutrients and antioxidants than the traditionally cultivated vegetables. These vegetables are of higher demand in five-star hotels



and with the living style and the work culture of the Indian people it will add up to good health and definitely this will also raise the socio economic status of the farmers by enhancing the monetary income.



## Visit and Motivational Lecture of the District Magistrate and Superintendent of Police

The District Magistrate and Superintendent of Police, Kishanganj visited the DKAC Campus on December 2<sup>nd</sup>. A series of motivational lectures were delivered by the dignitaries among over three hundred students and faculties and staff of Dr Kalam Agricultural College as well as College of Fisheries at Kishanganj. The guests were welcomed by our Associate Dean-cum-Principal and Officer on Special Duty, College of Fisheries, Kishanganj. Dignitaries visited the campus including Administrative Block, Smart Classrooms, Auditorium, Molecular Biology Laboratory and Soil Science Laboratory and Conference Room of the College. District Magistrate applauded seeing the huge infrastructure and facilities developed by the State Govt. for well being of farmers of this region. During motivational lecture at College auditorium, SP-Kishanganj elaborated and shared his experiences regarding preparations for civil



service examination. In this august gathering, district magistrate, Kishanganj focused his lecture and interactions on social life, professional life, ethical values, women empowerment etc. Both the dignitaries were praised with the cleanliness of the huge campus with very meagre manpower. At the concluding session, vote of thanks was given by Officer on Special Duty, College of Fisheries, Kishanganj.

## Armed Force Flag Day Celebrated at BPSAC Purnea

Enthusiastic celebration of “Armed Force Flag Day” was organised on December 7th by the NSS and NCC unit at BPSAC Purnea. The event was graced by Dr Paras Nath, Associate Dean-cum-Principal, BPSAC Purnea. On the occasion, he spoke to the gathering about Armed Forced Day celebration its objectives mode of collection of the token money for helping retired persons from army services. He also highlighted the activities of Armed Forces in war and peace and while assisting the civil administration especially during natural calamities, civil disturbance etc. On this day students also performed different cultural activities

to motivate people for the purchase of Token and Car Flags. Dr Paras Nath addressed the gathering and said that this day is a tribute to the undying spirits that lights the mountain of Siachen, depth of ocean and heights of fearlessness. The event began with the patriotic song by Ms Muskan Jha followed by another song by Ms Babli Kumari, Mr Gulsan Kumar and others. Besides, these students namely Ms Manjusha Sonam, Ms Riya, Mr Adity, Mr Gaurav Kumar, Mr Praveen, Mr Biswajeet, Mr Yas Raj, Mr Sani Kumar etc actively participated for collection of a fund in favour of BIHAR STATE EX-SERVICEMEN BENEVOLENT FUND.





## World Human Right Day organised at BPSAC Purnea

A celebration of World Human Right Day was organised by the NSS unit at BPSAC, Purnea on December 10th. The event was graced by Dr Paras Nath, Associate Dean-cum- Principal. Dr Nath said that the date was chosen to honour the United Nations General Assembly's adoption and proclamation, in 1948. He further laid emphasis on protecting human rights and asked students to sensitise people on human rights to usher changes in society. Dr Pankaj Kumar Yadav, O/I-NSS, BPSAC Purnea highlighted the gap between practicing

and preaching the human rights. Various activities were organised including the quiz and debate competitions among students. In quiz competition Mr Sonu Bharti, Mr Salim Malik Siddiqui and Mr Raj Kisor Kumar secured First, Second and Third position, respectively. The students namely Mr Aftab Raja, Mr Adil Anwar, Ms Aditi, Ms Sonam, Ms Babli, Ms Muskan and other students were also actively participated. Vote of thanks was extended to participants by Dr Pankaj Kumar Yadav.



## KVK Sabour imparted Training on 'Baayo-phlaaaik Se Machhalee Paalan'

The Krishi Vigyan Kendra, Sabour organised five-day training on "Fishery from Bio-Flak" under the ARYA Project. A total of thirty fish farmers from Bhagalpur district successfully completed the training. Dr Md Jiyul Hoda gave detailed information to the trainees on the origin and prevention of various diseases occurring in fish. Mr Shatradhan Prasad Singh, Master Trainer taught the trainees on critical point of maintaining ratio of ammonium nitrate, carbon and nitrogen in Bio-flake. In this occasion, Dr Vinod Kumar, Senior Scientist and Head, asked the trainees to explore this training knowledge for self employment



through fishery. The trainees were very much happy with this training.

### Publication

Siddiqui MW, Homa F, Nayyer AM, Ghatak A, Yousuf B, Aftab MA and Ali A (2020) Browning metabolism and quality of fresh-cut drumstick (*Moringa oleifera*) as influenced by acidulant treatments. J Food Sci Technol. doi. org/10.1007/s13197-019-04233-3

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## On the Eve of World Soil Day

मैं धरती  
 मैं धरती, हर रूप में मैंने तु-हजये प्रेम दिया है,  
 मेरे ही गोद में जन्म लेकर तेरी किलकारियां उठी हैं,  
 वायु, आहार, जल से फिर तेरा जीवन सींचा है,  
 अपने आँचल तले मैंने तु-हजये आश्रय दिया है,  
 मैं धरती, हर रूप में.....।  
 जब तु पहली बार चला और गिरा,  
 मैंने तु-हजये अपनी ममता में समेटा है,  
 अपने अंगो का खनन कर तु-हजये अलंकृत किया है,  
 प्रकृति को गुरु बना तु-हजये शिक्षा भी दिलवाया है,

मैं धरती, हर रूप में.....।

पर बदले में हे मनुष्य, तुने कब मु-हजये थामा है,  
 हर रोज मु-हजय पर तकनीकों का प्रहार किया है,  
 तेरे लालसा ने मु-हजयमें गहरा छेद किया है,  
 और फिर उसमें रसायनिक वि० को भी भरा है,

पर मैं धरती हर रूप में.....।  
 मैं तो बु-सजयी हो रही,

पर अब भी तु-हजये रोम-उचयरोम से सींचा है,

क्योंकि, मैं धरती हर रूप में मैंने तु-हजये प्रेम दिया है।

ममता कुमारी,  
 परास्नातक छात्रा,  
 रोल नं० BAC/M/SSAC/617/19-20,  
 मृदा विज्ञान एवं कृषि रसायन विभाग,  
 बिहार कृषि महाविद्यालय, सबौर।





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# किसान मेला 2020 Kisan Mela 2020

**23-25 February, 2020**

**“मौसम के अनुकूल कृषि तकनीकें”  
“Climate Resilient Agriculture Techniques”**



**बिहार कृषि विश्वविद्यालय**  
सबौर- 813210, भागलपुर (बिहार)

## बिहार कृषि विश्वविद्यालय, सबौर

बिहार राज्य, मिट्टी और जल संसाधनों के प्राकृतिक धरोहर की रमणीय स्थलीय के साथ-साथ वातावरण के विभिन्न आयामों के कारण विविध प्रकार की कृषि उत्पादन के वृहत संभावनायें प्रस्तुत करता है। बिहार कृषि महाविद्यालय, देश के सबसे पुराने कृषि महाविद्यालय में से एक है, जिसकी स्थापना वर्ष 1908 में भागलपुर में की गयी थी। बिहार कृषि महाविद्यालय की स्थापना 5 अगस्त 2010 को राज्य के दूसरे कृषि विश्वविद्यालय के रूप में की गयी। बिहार कृषि विश्वविद्यालय की स्थापना नये-नये कृषि तकनीकी विकास कर किसानों की आर्थिक स्थिति के साथ-साथ गुणवत्तायुक्त जीवन प्रदान करने के प्रयासों के उद्देश्य को ध्यान में रखते हुए की गयी है। विश्वविद्यालय अपने उद्देश्यों को विश्वस्तरीय जरूरत-आधारित कृषि शिक्षा, शोध तकनीक, नव- प्रवर्तन, प्रसार तथा सामाजिक सेवाओं को अपने अंगीकृत महाविद्यालयों, अनुसंधान केन्द्रों तथा कृषि विज्ञान केन्द्रों के सुदृढ़ तंत्र के माध्यम से प्राप्त कर रहा है।

## Bihar Agricultural University, Sabour

Bihar state is gifted with gracious natural gift of soil and water resources as well as suitable agro-climatic conditions having vast potential of agriculture production of varied of nature. Bihar Agriculture College, Sabour is one of the oldest college of agriculture in the country established in the year 1908 in the district of Bhagalpur. Bihar Agricultural University has been established on 5<sup>th</sup> August 2010 as the second agriculture university of the state. It has been established to improve and advance the farmer condition by improving the quality of life though new agriculture interventions. The university shall achieve this goal with the provision of need-based agriculture education, research, extension, and public services through networks of colleges, research stations and Krishi Vigyan Kendras.

## किसान मेला - 2020

किसान मेला विश्वविद्यालय का एक महत्वपूर्ण वार्षिक गतिविधि है जो नवीनतम कृषि आधारित तकनीकी और शोध के विकास पर उत्पादन/ उत्पादकता/ आमदनी को बढ़ाने के लिए जागरूकता प्रदान करता है। ऐसा आयोजन किसानों/ कृषि उद्यमियों/ प्रसार कार्यकर्ताओं ग्रामीण युवाओं से प्रतिक्रिया प्राप्त कर भावी अनुसंधान तथा प्रसार का प्रतिक्रिया की दिशा तय करता है। इस वर्ष के मेले का आयोजन विशेष विषय-वस्तु “मौसम के अनुकूल कृषि तकनीकें” को केन्द्र बिन्दु में रखते हुए किया जा रहा है।



## Kisan Mela - 2020

The Kisan Mela is an important annual event of the varsity for creating awareness about new agriculture-based technologies and farmer-friendly researches developed for enhancing the production, productivity and income levels. Such event is an important source of getting feedback from farmers/ agri-entrepreneurship/ extension research strategies and extensions priorities of the university. This is organized with specific theme of “Climate Resilient Agriculture Techniques”.

## जलवायु के अनुकूल कृषि तकनीकें

मौसम परिवर्तन के परिपेक्ष्य में जलवायु अनुकूल कृषि तकनीकों को स्थानीय स्तर पर बेहतर ताल-मेल के साथ क्रियान्वित करने की आवश्यकता है। विभिन्न कृषि परिस्थितिकी दशाओं में मौसम परिवर्तन के अनुकूल विभिन्न तकनीकों का समावेशन उचित होता है। मौसम के मिजाज में हो रहे बदलाव के आलोक में सिंचाई हेतु जल, पोषक तत्व, कार्बन (फसल उत्पादन का प्रमुख तत्व), ऊर्जा (कृषि कार्य हेतु लगाने वाली), मौसम एवं तकनीकी ज्ञान के 06 विषय मुख्य आधार हैं जिनपर ध्यान देना आवश्यक है। जलवायु के अनुकूल कृषि तकनीक यथा-धान की सीधी बुआई, मक्का आधारित पद्धति, रेज्ड बैड तकनीक, फसल अवशेष प्रबंधन, खेत का समतलीकरण, खेत की मँदबंदी, सूक्ष्म सिंचाई पद्धति, पोषण जानकारी टूलस, ग्रीन सीकर मशीन का व्यवहार, फसल प्रभेद का व्यवहार, फसल पद्धति अनुकूलन, फसल विविधीकरण आदि का व्यवहार संरक्षित खेती के लिए आवश्यक होगा। मौसम परिवर्तन के परिपेक्ष्य में सभी वर्ग के किसान के लिए कृषि एवं संबद्ध क्षेत्रों में उनका तकनीकी क्षमतावर्द्धन परम आवश्यक है।

## Climate Resilient Agriculture Techniques

The Climate Resilient Agriculture Techniques are needed better understanding of adaptation to the climate change at the local scale. As per area & specific agro-ecological situation, we need appropriate technological solutions. The Climate Resilient Agriculture Techniques focus on the 06 pillars of interventions i.e. Water, Nutrient, Carbon, Energy, Weather and Knowledge. The above interventions will be executed through Direct Seeded Rice, Maize based system, Raised

beds, Residue management, Precision land levelling, Bunding, Micro irrigation, Nutrients decision support tools, Use of Green Seeker, Crop varieties, Cropping system optimization, Crop diversification etc. In the context of Climate Change, the gender empowerment and capacity building of the farmers are most important in agriculture and allied sectors.

## किसान मेला - 2020 का मुख्य प्रदर्शन

- ◆ विश्वविद्यालय द्वारा विकसित किये गये नवीनतम तकनीकों का प्रदर्शन
- ◆ विभिन्न प्रकार के बीजों पौध सामग्री का प्रदर्शन एवं विपणन
- ◆ किसानों द्वारा तैयार किए गये गुणसमर्थित उत्पादों की प्रदर्शनी तथा विपणन
- ◆ बागवानी एवं पशुओं की प्रदर्शनी
- ◆ कृषि उत्पादों की प्रदर्शनी तथा विपणन
- ◆ बिहार में कृषि के विकास के लिए कृषि उद्यमिता पर परिचर्चा
- ◆ प्रगतिशील किसानों को सम्मान
- ◆ बिहार कृषि विश्वविद्यालय के प्रायोगिक प्रक्षेत्रों पर किसानों का भ्रमण
- ◆ जीवत प्रत्यक्षण

## Attraction of Kisan Mela- 2020

- ◆ Display of advance technologies developed by University
- ◆ Display and sale of different varieties of seed/planting material.
- ◆ Exhibition and sale of value added product developed by farmers.
- ◆ Horticulture and Animal show.
- ◆ Agri-input exhibition and sale.
- ◆ Kisan Gosthi/Quiz/Cultural programme.
- ◆ Award for innovative / progressive farmers.
- ◆ Farmers visit to experimental plots of BAU.
- ◆ Live Demonstration.

