

Brief Report on
“Mission LiFE (Lifestyle for Environment)” Programme
(22nd May, 2023 to 28th May, 2023)
Center for Advance Studies on Climate Change
Dr. Rajendra Prasad Central Agricultural University, Pusa

With the advocacy of ministries, a week-long awareness campaign was organized in Dr Rajendra Prasad Central Agriculture University through Centre for Advance Studies on Climate Change and other departments from 22nd to 28th May, 2023 for “Mission LiFE (Lifestyle for Environment)” with theme “Climate Resilient and Smart Agriculture” patronized by Dr. P.S. Pandey, Honorable Vice-Chancellor, RPCAU, Pusa, about transition to sustainable life styles leading to sustainable consumption and production in agriculture sector. The brief highlights of the programme have been discussed below.

Dr. K. M. Singh (Dean, PGCA, RPCAU), Dr. A.K. Singh (Director research, RPCAU), Dr.M. S. Kundu (Director Extension Education) acted as the convenor of the programme. Dr. S.K. Singh (Associate Director Reasearch, RPCAU) and Dr. Ratnesh Kumar Jha(Project Director, Centre for Advance Studies on Climate Change) took their role as the co-convenor of the programme.

Dr. Jitendra Prasad (Deputy Director, Extension, RPCAU) and Dr. Anupama Kumari (Deputy Director, Extension Education, RPCAU) were functioning as Organizing Secretaries for 1st day. For 2nd day Dr. Abdus Sattar (Associate Professor, Agrometeorology, CASCC, RPCAU, Pusa); for 3rd day, Dr. Shankar Jha (Asst. Professor, Soil Science) acted as the Organizing Secretary. Heads of KVKs were the Organizing Secretary for 4th and 5th day. Dr. Pushpa Singh (Professor, Entomology, RPCAU) became the Organizing Secretary for 6th day. For 7th day, Dr. Sweta Mishra (Head, Plant Breeding, RPCAU) acted as the Organizing Secretary.

For Event Management Committee, the members were, Dr. Sweta Mishra (HoD, PBG), Dr. Jitendra Prasad (O/I, ATIC), Dr. Anupama Kumari (DDE, RPCAU, Pusa), Dr. Satish Kumar Singh (Ass. Professor, PB, RPCAU), Dr. Gitanjali Chaudhary (Asst. Professor, CCS), Dr.

Ashutosh Singh (Asst. Professor, Biotechnology), Dr. Meenakshi Diwedy (Asst. Prof., PGCA), Dr. R. K. Tiwari (Head, KVK Birauli), Dr. Shailesh Kumar (Asst. Profesor, Plant Physiology), Er. Anupam Amitabh (Asst. Professor, SRI), Dr. S.S. Prasad(Asst. Professor, Soil Science, TCA, Dholi), Dr. Mahesh Kumar(Asst. Professor, Statistics), Dr. S.P. Singh (Asst. Professor, Soil Science), Dr. Kaushal Kishor (Asst. Professor, PGCA)

Dr. R. K. Tiwari (Head, KVK Birauli) Dr. S.P. Singh(Asst. Professor, Soil Science), Mahesh Kumar (Asst. Professor, Statistics), Asst Comptroller, DoR were the members for Local Purchase Committee. For Food Committee, the members were Dr. Jitendra Prasad (O/I, ATIC), Dr. Kaushal Kishore (Asst. Professor, PGCA), Dr. Meenakshi Diwedy (Asst. Prof., PGCA), Dr. Aman Tigga (Asst. Prof, PGCA), Dr. G. S. Giri (Asst. Prof, Entomology), Er. Anupam Amitabh (Asst. Professor, SRI)

- The 1st day (22.05.2023) of the programme initiated with inaugural function and an opening lecture by Dr. Ratnesh Kumar Jha, Project Director, Centre for Advance Studies on Climate Change on backdrop of Climate Resilient Agriculture and Climate Smart Agriculture programme and its importance in mitigating climatic risks for enhancing farm production succeeded by Dr. Jitendra Prasad, Deputy Director, Extension Education, Dr. R.K. Tiwari, Senior Scientist and Head, KVK Birauli and Mr. Ashish Srivastava, and Mr. Raghuraj Singh from National Seeds Corporation. The meeting was represented by more than 100 farmers and Farmers Producers Companies and an interaction programme was organized on “Contingent as well as Climate Resilient seed Production” Also, future challenges of climate change in agriculture along with a short Question-Answer session was organized to make the farmers and FPOs aware about the Smart and Resilient Agriculture.
- A National Seminar on “Climate-smart Practices for agricultural sustainability & enhanced farmers' income” was executed in hybrid mode as a second day event on 23.05.2023 after a formal inauguration at Vidyapati Sabhagar by Dr. P.S. Pandey, Hon’ble Vice-Chancellor, RPCAU, Pusa , Dr. A.K.Singh, Director Research, RPCAU, Dr. Mrityunjay Kumar, Registrar, RPCAU, Dr. K.K. Singh , President, Association of Agrometeorologists and Dr. Abdus Sattar. The key-experts who delivered lectures were Dr. N. Subash (Principal Scientist, Agromet. & Head , Div. of Agril Physics, ICAR-IARI, New Delhi), Dr. Samsul

Huda (Senior Agro-climatologist/Modeller, School of Science, Western Sydney University, Australia) and Dr. K.K. Singh (President, Association of Agrometeorologists & Ex-Head, AASD, IMD, Ministry of Earth Sciences, Govt. of India, New Delhi. Honourable Vice-Chancellor, RPCAU, Pusa graced the occasion and led the whole team through his precious discourse about climatic impacts on agriculture and the possible remedies for a better human existence. Dr. A. K. Singh, Director Research, RPCAU, Pusa also drove a spark of motivation to work hand in hand for meeting the climatic stress. All the scientists, students and the research scholars of the university were the keen participants of this interaction. The most important lectures included were “Climatic Risk Assessment and Management for Smart Agriculture”, “Smart Agricultural Production Practices for Sustainable Environment” and “Enhanced Farm Production and Weather Forecasting and Climate Smart Practices for Agricultural Sustainability”. About 200 participants got benefited through online and offline mode.

- The programme progressed towards third day event on 24.05.2023 which began with a key lecture on “CRA programme: A solution for risk reduction in agriculture” by Dr. Ratnesh Kumar Jha, Project Director, CASCC and convener of the event in a nearby village Ladaura of Kalyanpur Block, Samastipur. Dr. Abdus Sattar, Associate Professor, Agrometeorology interacted with the farmers and told about the importance of weather forecasting on decision making in agricultural operation. He also added “University research programme for risk management in agriculture”.
- On 4th Day, a Travelling Seminar on Climate Change, Climate Smart Agriculture and Climate Resilient Agriculture was organized in all the KVKs of Dr. RPCAU Pusa in which farmers from nearby villages visited the CRA villages and get acquainted with the technologies being adopted by the participating farmers.
- Fifth day of the event i.e. 26.05.2023, began with an educational escort for around 150 adolescent students of Campus Public School, RPCAU Pusa, ushered to the Agromet Weather Station at CASCC, RPCAU, Pusa with modern equipments and its role in weather

forecasting by Dr. Abdus Sattar, Senior Agro-meteorologist. A speech competition was also conducted for the participants. The programme proceeded with the most substantial inputs from Hon'ble Vice-Chancellor, RPCAU, Pusa Dr. P.S. Pandey and Dr. A.K. Singh, Director Research for exhorting the scientists to meet the climatic risks with climate resilient and integrated approach on the same day. The session was embellished with an interaction and vigorous motivation session by Honourable Vice-Chancellor with of Campus Public School and felicitating with awards to the winners of the speech competition held earlier. Additionally, four esteemed lectures were provided by Dr. Abdus Sattar, Agro-metereologist, CASCC, RPCAU, Pusa, Dr. Shankar Jha, Scientist, Soil Science, Mr. Anil Verma, Social Activist from PRAN and Dr. Ratnesh Kumar Jha, Professor, Agronomy.

- For resurgence of a cleanliness drive in university campus, a campaign on “Swachhata Abhiyaan and Plastic Menace” was accomplished in the morning hours on 6th day, 27.05.2023. The scientists, staffs and students and all the National Service Scheme volunteers of the University assembled and disposed the campus wastage for awareness creation through this campaign. University academicians like Dr. Ratnesh Kumar Jha (Professor, Agronomy) Dr. Mahesh Kumar (Assistant Professor, Agril. Statistics), Dr. Abdus Sattar (Asso. Professor, Agromet.) Dr. Mukesh Kumar (Asso. Professor, Agronomy) Dr. Rajeev Kumar (Asso. Professor, Biotechnology), Dr. Ashutosh Singh (Asst Professor, Biotechnology), Dr. Jyotsnarani Pradhan (Asst. Professor, Plant Physiology), Dr. Gulab Singh (Technical Officer, Agrometeorology), Dr. Pawan Kumar Srivastava (Research Associate), Ms Rupashree Senapati (Research Associate), Mr. Basant Kishore (Lab. Technician) Mr. Jitendra Kumar (LDC), Mr. Suraj Kumar (SSS) and Mr. Kanhaiya Kumar (SSS) prominently associated with the cleanliness league.

At forenoon of the same day, a workshop on “Climate Resilient Issues: Interventions by NGOs/Non-profit organizations” with concerned scientists and experts was also organized. Key experts were Mr. Prabhat Kumar Jha from PRADAN, Mr. Ajeet Singh from Environmental Development Fund, and Dr. Mani Bhushan Jha and Mr. Shashidhar Jha from World Resource Institute put the light on Climate Change and related vulnerability and other issues faced by farmers with a reciprocated interaction. Dr. Puspa Singh (Professor, Entomology) synchronized the whole seminar with her valuable feedbacks. This was

followed by a significant lecture on “Burning Issues on Climate Resilience and Agriculture” by Dr. Ambarish Kumar, Dean, College of Agricultural Engineering and Technology, Dr. RPCAU Pusa.

- Marching with success, the event set the climax on the 7th day (28.05.2023) with a multi stakeholders’ workshop on “Millets for next generation climate-smart agriculture” through the scientists on millets, extension functionaries, farmers, students, FPOs, keeping in view of the ongoing International Year of Millets, 2023. Dr. Sweta Mishra, Head, Department of Plant Breeding delivered a noteworthy lecture on “Importance of small millets and its promising varieties”. Dr. Hemlata Singh, Asst Professor, Bio-Chemistry discussed beautifully on topic “Health benefits of millets” followed by splendid discussions on Cultivation techniques of small millets by Dr. Kaushal Kishor, Asst. Professor, Agronomy, Deficiency symptoms of essential elements in small millets and its management by Dr. Shailesh Kumar, Asst Professor, Plant Physiology. A series of important lectures were also delivered on the same day such as Deficiency symptoms of essential elements in small millets and its management by Dr. G.S. Giri, Asst. Professor, Entomology, “Insects, pests and disease management in Millets” by Dr. Meenakshi Diwedi, Asst. Professor, Plant Pathology, “Machinery for millet processing” by Er. Anupam Amitabh, Asst Professor, SRI and “Value-added products of millets” by Dr. Gitanjali Choudhary Asst. Professor, Food and nutrition.
- The closing ceremony was conducted under the Chairmanship of Dr. Anil Kumar Singh, Director Research in which Dr. Abdus Sattar presented a brief overview of all 7 days’ programme with presidential remarks by the Chairman. The meeting ended with a vote of thanks. A number of scientists, officers and students from the university graced the concluding day event with the farmers and their demand for more of such occasions to celebrate motivation. All the scientific and technical staffs from Centre for Advance Studies on Climate Change actively planned, organized and participated in the whole event. Dr. Gulab Singh (Technical Officer, Agrometeorology), Dr. Pawan Kumar Srivastava (Research Associate), Bipul Kumar Jha (Research Associate) Dr. Sudeshna Dash (Research Associate), Ms Rupashree Senapati (Research Associate), Mr. Rajnish Kumar (SRF), Mr. Rakesh Kushwaha (SRF), Mr. Ravi Kumar (SRF) Mr. Ashok Sahu (Senior Technical Officer), Mr.

Prem Kumar Prajapati (Lab. Technician), Mr. Prashant Kumar (Lab. Technician), Mr. Basant Kishore (Lab. Technician) Mr. Jitendra Kumar (LDC), Mr. Suraj Kumar (SSS), Mr. Kanhaiya Kumar (SSS) were prominent for sportive coordination.

Few Photographs



1st Day(22.05.2023) Scientists sensitizing farmers at KVK



2nd Day (23.05.2023) National Seminar



3rd Day (24.05.2023) visiting lectures of scientists



4th Day (25.05.2023) Travelling Seminar for farmers



5th Day (26.05.2023) Students visit and Speech Competition



6th Day (27.05.2023) Cleanliness Drive & NGO Workshop



7th Day (28.05.2023) a multi stakeholders' workshop on Millets

Media Coverage of the Programme

<p>कार्यक्रम • जलवायु अनुकूल और स्मार्ट कृषि के विषय पर सात दिवसीय सेमिनार का आयोजन</p> <h3>मौसमीय परिवर्तन काफी चिंता का विषय वैज्ञानिकों के लिए चुनौतीपूर्ण है : डॉ. केके</h3> <p>वैज्ञानिकों को मौसम अनुकूल कृषि पद्धतियों को विकसित करने की जरूरत : वीसी</p> <p>डॉ. राजेन्द्र प्रसाद केन्द्रीय कृषि विधि विद्यालय के निदेशक प्रमुख ने आजकाल अनुकूल और स्मार्ट कृषि के विषय पर सात दिवसीय सेमिनार का आयोजन किया था। सेमिनार का उद्घाटन कार्यक्रम के मुख्य अतिथि प्रमुख मौसम वैज्ञानिक संघ प्रयास के अध्यक्ष डॉ. केके सिंह ने किया। उन्होंने कहा कि किसानों को स्मार्ट कृषि तक पहुंचाने के लिए सरकार को आवश्यक संसाधन उपलब्ध करवाकर किसानों को प्रेरित करना होगा। उन्होंने कहा कि किसानों को जलवायु परिवर्तन के खतरों से निपटारने के लिए स्मार्ट कृषि तक पहुंचाने के लिए सरकार को आवश्यक संसाधन उपलब्ध करवाकर किसानों को प्रेरित करना होगा। उन्होंने कहा कि किसानों को जलवायु परिवर्तन के खतरों से निपटारने के लिए स्मार्ट कृषि तक पहुंचाने के लिए सरकार को आवश्यक संसाधन उपलब्ध करवाकर किसानों को प्रेरित करना होगा।</p> <p>बदलते मौसम के कारण मानव जीवन के साथ पड़-पड़ियां, परासी प्रभावित हो रहे हैं : कुलपति</p> <p>संभावित भविष्य में जलवायु परिवर्तन के कारण मानव जीवन के साथ पड़-पड़ियां, परासी प्रभावित हो रहे हैं। कुलपति डॉ. एन. सुभाष ने भी अपने अपने संबोधन में कहा कि किसानों को स्मार्ट कृषि तक पहुंचाने के लिए सरकार को आवश्यक संसाधन उपलब्ध करवाकर किसानों को प्रेरित करना होगा। उन्होंने कहा कि किसानों को जलवायु परिवर्तन के खतरों से निपटारने के लिए स्मार्ट कृषि तक पहुंचाने के लिए सरकार को आवश्यक संसाधन उपलब्ध करवाकर किसानों को प्रेरित करना होगा।</p>	<h3>वैज्ञानिकों को सतत प्रयत्नशील रहने की जरूरत : कुलपति</h3> <p>राष्ट्रीय एडवेंचर-241, 5/23</p> <p>पूसा (एसएनबी)। डॉ. राजेन्द्र प्रसाद केन्द्रीय कृषि विधि के कुलपति डॉ. पीएस पाण्डेय ने कहा कि मौसम परिवर्तन का असर अब स्पष्ट दिख रहा है। ऐसे में कृषि की चुनौतियों से निबटने में किसानों व वैज्ञानिकों का सामूहिक प्रयास जरूरी है। बदलते मौसम के अनुरूप कृषि में तकनीकी विकास को लेकर वैज्ञानिकों को सतत प्रयत्नशील रहने की जरूरत है। वहीं किसान उसे अपनाकर खेती को नई दिशा देकर लाभ ले सकते हैं। वे मंगलवार को विधि के विद्यापति सभागार में कृषि वैज्ञानिकों को संबोधित कर रहे थे। मौका था जलवायु अनुकूल स्मार्ट कृषि पर 7 दिवसीय सेमिनार के उद्घाटन सत्र का। अपने संबोधन में उन्होंने कहा कि कृषि के क्षेत्र में पूसा की धरती ऐतिहासिक है। जरूरत है उत्कृष्ट कृषि प्रणाली व लाभकारी कृषि को लेकर भी यह धरती ऐतिहासिक संदेश दे। इसमें कृषि विधि से जुड़े वैज्ञानिकों की भूमिका अहम है। उन्होंने ग्लोबल वार्मिंग के खतरों को आगाह करते हुए ग्रीन इनर्जी को बढ़ावा देने पर बल दिया। कृषि मौसम वैज्ञानिक संघ के अध्यक्ष डॉ.केके सिंह ने कहा कि मौसम में परिवर्तन का दर लगातार बदल रहा है। ऐसे में प्राकृतिक संसाधन का उपयोग आवश्यकतानुसार ही करना आवश्यक है। कार्यक्रम की रूपरेखा कुलसचिव डॉ.मुत्तुजय कुमार ने प्रस्तुत की। स्वागत मौसम वैज्ञानिक डॉ.ए.सत्तार ने एवं संचालन डॉ.आरके तिवारी ने किया। मौके पर एडीआर डॉ. एसके सिंह समेत डीन-डायरेक्टर व वैज्ञानिक मौजूद थे।</p> <p>संबोधित करते अतिथि व अन्य।</p>
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मोटे अनाज को बढ़ावा देना समय की मांग: निदेशक

पूसा, निज संवाददाता। डॉ. राजेन्द्र प्रसाद केन्द्रीय कृषि विवि के निदेशक अनुसंधान डॉ. अनिल कुमार सिंह ने कहा कि पौष्टिक आहारों की जरूरत पूरा करने के लिए मिलेट्स (श्री अन्न) की खेती को बढ़ावा समय की मांग है। यह लोगों को स्वस्थ रखने के साथ आर्थिक समृद्धि में भी सहायक होगा। वे रविवार को विवि के विद्यापति सभागार में किसानों, प्रसार कार्यकर्ता, एफपीओ के सदस्यों, छात्रों व वैज्ञानिकों को संबोधित कर रहे थे। मौका था जलवायु परिवर्तन पर सात दिवसीय कार्यक्रम के अंतिम दिन अगली पीढ़ी को जलवायु स्मार्ट कृषि के लिए मिलेट पर एक बहु-हितधारक



विद्यापति सभागार में संबोधित करते विवि के निदेशक अनुसंधान। विवि में कृषि के नये यंत्रों व पौष्टिक आहारों के संबंध में जानकारी लेते प्रशिक्षु।

विषय पर कार्यशाला का। उन्होंने कहा कि एक समय था देश में अनाज की कमी थी। तब फसलों की उत्पादकता बढ़ाने के लिए रासायनिक उर्वरकों, कीटनाशकों का भरपूर इस्तेमाल को बढ़ावा मिला। लेकिन वर्तमान समय

फसलों की उत्पादकता के साथ मनुष्य व मिट्टी को स्वस्थ रखने का है। ऐसे में मोटे अनाज के उत्पादन को बढ़ावा देने की जरूरत है। मौके पर विवि के मिलेट्स प्रभारी डॉ. श्वेता मिश्रा, डॉ. कौशल किशोर, डॉ. जीएस गिरि, डॉ.



शैलेश कुमार, डॉ. जितेंद्र कुमार, डॉ. हेमलता सिंह, डॉ. मीनाक्षी द्विवेदी, डॉ. गीतांजलि चौधरी, डॉ. अनुपम अमिताभ, गीतांजलि मौजूद थीं। इस दौरान प्रशिक्षुओं को विवि के नवीनतम कृषि यंत्रों के साथ पौष्टिक आहार के

सेवन, बनाने के तौर-तरीकों से अवगत कराया गया। वहीं विश्व मिलेट वर्ष के महत्व, पोषक तत्व, उन्नत प्रभेद, खेती के तकनीक, फसलों के मुख्य कीट, रोग व उसके प्रबंधन पर विस्तार से जानकारी दी गई।