



Newsletter



Volume- 27

April-June, 2022

1.	KVK National Conference : Participation and management	2
2.	Organisation of programme on “Kisan Bhagidari - Prarthamikta Hamari”	5
3.	Stakeholder Workshop : Planning the mechanism for Uttar Pradesh	6
4.	ATARI organised Workshop on Planned Survey on Pulses in Rice based Cropping System	8
5.	Virtual review meeting of Dairy and Bee Keeping capacity building programme	9
6.	Visit of Ex Director (AE), New Delhi	9
7.	Participation in SPRROW programme	9
8.	Participation of ATARI in Virtual meeting on promotion of Kisan Drones: Issues, Challenges & way forward	10
9.	Celebration of International Yoga Day	12
10.	Other Meetings/ workshops/ National Symposium	12
11.	Quarterly Progress Report (April-June, 2022)	12

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KVK National Conference : Participation and management



Two days XII Biennial National KVK Conference was organized at Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan (HP) during 1-2 June, 2022.

On the dias Hon'ble Governor of Gujarat, Shri Acharya Devvrat, Chief Minister of Himachal Pradesh Shri Jai Ram Thakur, Minister of State for Agriculture & Farmers Welfare Shri Kailash Chaudhary, Secretary DARE and DG ICAR Dr Trilochan Mohapatra, DDG(AE) Dr A.K. Singh, Vice Chancellor of Dr YS Parmar University of Horticulture and Forestry Dr Rajeshwar Singh Chandel were present. Hon'ble AM Shri Narendra Singh Tomar attended this conference via virtual mode.

At the beginning Dr A.K. Singh, DDG (AE) welcomed all the participants and presented a brief presentation on KVK Achievements-2021. He also emphasized on future programmes such as

KVKs as a single window for agricultural development, Ecosystem approach for sustainable agriculture, Agri-Food Value Chains, Nutri sensitive Agriculture, Energy efficient agriculture for empowering the small farmers Precision farming, Drones, Convergence with Departments and organisations for effective implementation of schemes and programmes, Technological backstopping and capacity development of stakeholders and FPOs, Digital communication, Community Mobilization.



Hon'ble Minister of Agriculture and farmers welfare Shri Narendra Singh Tomal joined by virtual mode. He congratulated all KVK scientists and team of DDG (AE) for outstanding contribution in the Agriculture sector. All KVKs are also contributing and performing good work in terms of capacity building, demonstrations, On Farm Trials, seed productions and other extension activities for the benefit of farming community. He also discussed regarding government policies for the benefit of farmers welfare etc.

Secretary DARE and DG ICAR Dr Trilochan Mahopatra also welcomed and appreciated the work of KVKs across the country. He emphasized on capacity development and use of drones for advancement in the agriculture sector.

Hon'ble Chief Minister of HP Shri Jai Ram Thakur and Vice Chancellor of Dr YS Parmar University of Hort. & Forestry also appreciated work of KVKs and request to promote Natural farming for sustainable agriculture.

In the inaugural address Hon'ble Governor of Gujarat, Shri Acharya Devvrat expressed the details of Natural farming which is theme of this Conference. He also shared his experiences that how use of chemical fertilizers degrading the cultivable soil. In his long talk, he emphasised on Natural farming and its potential for systematic transformation. After the lunch break, Participants' visit farmers' field, university farm and demonstration units.



There were three technical sessions organised on second day of the conference. The theme of these sessions were (i) Precision Agriculture, Diversification and Intensification (ii) Natural Farming for Sustainable Agriculture and (iii) Successful Interventions and Experiences of KVKs and young Entrepreneurs”

Dr. U. S. Gautam, Director, ICAR-ATARI, Kanpur participated as a convener in Technical session-II: ***Natural Farming for Sustainable Agriculture.*** In this session Dr. Rajeshwar Singh Chandel, VC, Dr YHSPUH&F act as chairman of session. Shri T. Vinay Kumar, Executive Vice Chairman, Rythu Sadhikara Samstha, Govt of A.P. Dr. V.P. Chahal, ADG(AE) act as conveners with me. Dr. F.H. Rahman, PS, ATARI Kolkota as as Rapporteurs in this session.

There were total six lectures delivered under Technical Session-II which are – (i) Organic and Natural farming Initiatives of ICAR by N. Ravisankar, PS, IIFSR, Modipuram, (ii) Natural farming Experience of an Entrepreneur by Shri Shetya Ratilal Vithaldas, SA, Gujrat (iii) Natural farming for sustainability of small holders in hill ecosystem by Shri Sanjay Kumar, Mandi, HP, (iv) Sustainable production through Natural /organic farming by Shri Hem Chand Patidar, Jhalawar Rastahan

Technical session-III organised on ***“Successful Interventions and Experiences of KVKs and young Entrepreneurs”***



After lunch break Technical session-IV was organised on Facilitating KVKs in Management, Administrative and Financial Matters.

In the valedictory session DDG (AE), Dr A.K. Singh given the welcomes remarks in presence of all VIPs on the dias – Hon’ble Governor of Himachal Pradesh Shri Rajendra Vishwanath Arlekar, Minister of State for Agriculture & Farmers Welfare Shri Kailash Choudhary, Secretary DARE and DG ICAR Dr Trilochan Mahopatra, Vice Chancellor of Dr YS Parmar University of Horticulture and Forestry Dr Rajeshwar Singh Chandel.

Dr. Rajbir Singh, Director ICAR ATARI, Ludhiana given brief recommendations in front of all dignitaries.

Hon’ble minister of Fisheries, Animal Husbandry and Dairying, GOI also addressed virtually.

Vote of thanks given by Dr. V.P. Chahal, ADG (AE), ICAR and Director (Extn. Education), Dr YSPUHF, Solan.





Organisation of programme on “Kisan Bhagidari - Prarthamikta Hamari”



Hon'ble Shri Narendra Singh Tomar

The inaugural programme on “*Kisan Bhagidari - Prarthamikta Hamari*” has been organised by 89 KVKs of Uttar Pradesh on 26.04.2022.

This programme was inaugurated by Hon'ble Minister of Agriculture and Farmers' Welfare in virtual mode. Every KVK joined the inaugural session along with farmers.

On this occasion Hon'ble minister of Agriculture, Shri Narendra Singh Tomar said that we are celebrating this event as Krishi Utsav. He said we need to upgrade the farmer by providing new technologies and other important facilities for doubling his income. Total 11.5 crore farmers are benefitted under PM Kisan Samman Nidhi and 100% money has been deposited directly into their account without involving middle person. Self dependent is the motto of our Agriculture sector. Now Government kept 1.5 lakh crore rupees for Agriculture sector. He also expressed how soil health is important. Role of Micro-irrigation, use of drone, precision farming is also important. Natural farming, nano urea will also increase the production.

On this occasion Hon'ble State minister of Agriculture Shri Kailash Chaudhary also expressed his important views on agriculture sector.

The Kisan Mela have been arranged at every KVK with excellent arrangements of pandal, exhibition, audio/visuals, refreshment and transport for farmers, etc.

There was farmers- scientist interaction on "Bhartiya Prakritik Krishi Paddhati" technical discussion on Millets, Oilseeds and Bio-fortified crops, and participation of public representatives. There was active participation of ATMA and other line departments also.

In this mela a total of **34093** participants have been participated which includes farmers (**32930**), central Ministers/MPs (9) and State Ministers/MLAs (**49**) and others (**1105**).



KVK Bhadohi



KVK Moradabad-II



KVK Kaushambic



KVK Etah



KVK Banda



KVK Bahraich



KVK Rampur



KVK Bulandshahar



KVK-II Sitapur



KVK Moradabad



KVK Mirzapur



KVK Moradabad



KVK Lucknow



Stakeholder Workshop : Planning the mechanism for Uttar Pradesh

One day stakeholder workshop on planning the convergence mechanism for Uttar Pradesh was organised at ICAR ATARI Kanpur in the chairmanship of ATARI Director Dr. U.S.Gautam on 29.05.2022. Mr. Vivek Kumar Singh, Director Agriculture, Department of Agriculture was the Chief Guest. This meeting was organised both by physical and virtual mode. Dr. Sudhanshu Singh (IRRI IN), Dr. Pranavir Singh, Dr A.K. Singh, DE CSAUAT, Kanpur, Dr Sugandha Munshi (CO IN) etc attended virtually.

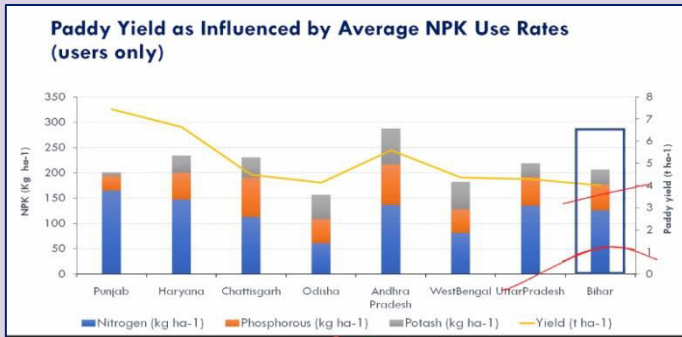
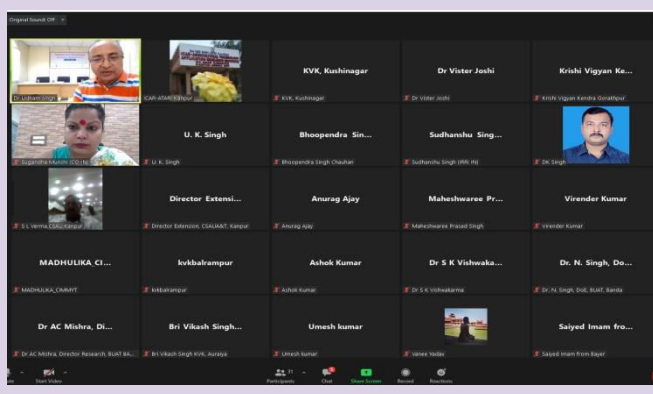


Dr. R.K. Malik, CEO of CSISA project, and all principal scientists from ATARI Dr. Atar Singh, Dr. Sadhna Pandey, Dr. Shantanu Kumar, Dr. Raghwendra Singh, and S.N. Yemul were present.

At the meeting, all participating institutions decided to organize a joint demonstration of technologies – for farmers – in select districts in Uttar Pradesh. Some key considerations that emerged from this meetings.

CP members agreed to finalize messages to be transmitted to farmers as the Kharif season progresses in eastern UP





Brainstorming

- An opportunity to discuss different view points.
- An efficient way to filter new ideas
- Creative way of asking out-of-box questions
- Suggestions can be translated into reality.
- Incrementalism is unexciting.

- LDS has brought a fresh perspectives.
- It has been possible through direct contact with farmers
- Discussing different style of thinking

ATARI organised Workshop on Planned Survey on Pulses in Rice based Cropping System



One day workshop was held at ICAR-IIPR, Kanpur in joint partnership with ICAR-ATARI, Kanpur and CIMMYT-CSISA and partner KVKs of Uttar Pradesh state on 26 June, 2022 to finalize the modalities and roadmap for landscape diagnostic survey (LDS) in pulses in the rice-based cropping system across the country. This meeting was chaired by Dr Bansa Singh, Director, ICAR-IIPR, Kanpur and his team and joined with Dr US Gautam, Director, ICAR-ATARI, Kanpur—along with his scientists; Dr Peter Craufurd, CIMMYT and Dr RK Malik, CIMMYT-CSISA. Besides, ADG (AE), ICAR, Dr Randhir Singh; the Directors or their representatives from ATARIs Jodhpur, Ludhiana, Guwahati, Patna, Kolkota and Jabalpur; and Drs Somen Paul and Alka Arora from ICAR-IASRI, New Delhi joined the workshop online.

At the outset, **Dr SK Dubey, ICAR-ATARI, Kanpur** welcomed the participants and shared with them the background of the workshop. Dr US Gautam in his remarks said the benefits generated by LDS done for rice and wheat crops separately and in system.

This was followed by the presentation made by **Dr Soumen Paul** about CSISA dashboard for KVK portal developed by IASRI, New Delhi. **Dr Randhir** said that it may be presented in the Division for detailed discussion on how to make it visually more attractive.

Dr Peter in his presentation highlighted the MEL concept which is a kind of tripartite structural arrangements between KVK-ICAR-development

departments with appropriate convergence at centre, state, and district level. He also highlighted the key principles of LDS which ought to be modular, random, and large sample based.

Dr Bansa Singh, Director, ICAR-IIPR, Kanpur in his remarks stated that 12 pulse crops are being grown across the country in different agro-climatic regions.

Rice-fallow cropland areas are those areas where rice is grown during *kharif* growing season (June–October) which is commonly followed by a fallow during the *rabi* season (November– February). This is slightly altered in Southern India where the major rains occurred during *rabi* season as the rainfall pattern follows mostly a bimodal type.

Dr Narendra Kumar, Head, Crop Production Division, IIPR also reiterated the similar observations and scope. **Dr IP Singh**, PC (Pigeonpea) highlighted ecologies and the matching specifications of pigeonpea crop.

Dr RK Malik spoke about experiences of LDS on rice and wheat and shared the purposes and units of survey for pulses (which is 100 districts across the country). He identified four most successful regions in India from pulses production points of view.



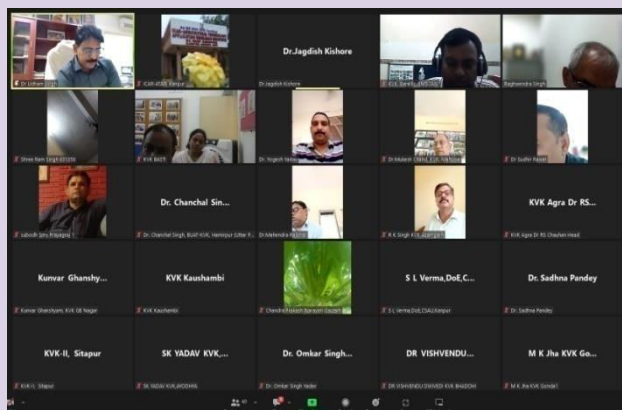
On line Participation



Planning & Discussion

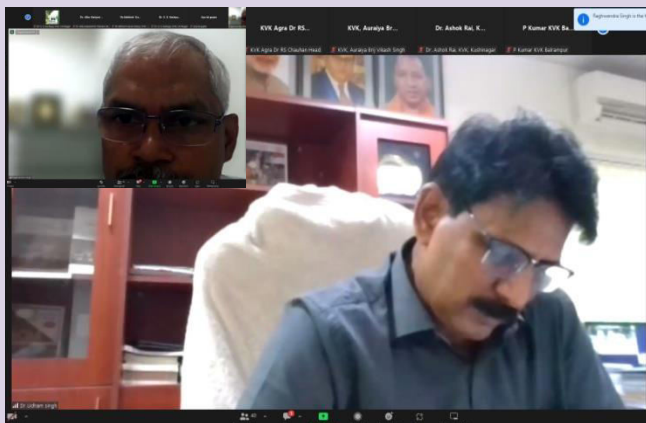


Virtual review meeting of Dairy and Bee Keeping capacity building programme



A virtual review meeting on capacity development for Dairy and Bee Keeping was conducted by ICAR-ATARI Kanpur on 22.06.2022. Total 63 Heads/SMSs and ATARI officials were participated in this meeting. Director ATARI Dr. U.S. Gautam reviewed capacity building programme under Dairy and Bee Keeping of those KVKs who allotted to conduct the same. Total 40 training was kept on same subject. It is noted that most of the KVKs have not conducted the programmes due to elections. On this occasion Director suggested that impact of training must be noted by each KVK. follow up of farmers is necessary. As this is special programme, budget must be utilized 100%.

Vote of thanks given by Dr Raghwendra Singh, PS (Hort.) who was host of this programme.



Visit of Ex Director (AE), New Delhi Shri Kanhaiya Chaudhary



ICAR-ATARI, Kanpur welcomed Shri Kanhaiya Chaudhary, Ex Director (AE), New Delhi on 5 April, 2022. On his visit Shri Chaudhary shared his experiences in Administration, Finance and other legal matters.

ATARI attended SPARROW programme

All staff of ICAR-ATARI, Kanpur attended the training programme on SPARROW (Smart Performance Appraisal Report Recording online window) on 19.04.2022. This virtual programme was organised by ICT Unit of ICAR. Shri Sanjay Garg and Dr Anil Rai, ADG said that initially all the staff of ICAR excluding scientist needs to enter Appraisal report online, further reporting and reviewing will be made by respective seniors. This is the part of e-office.



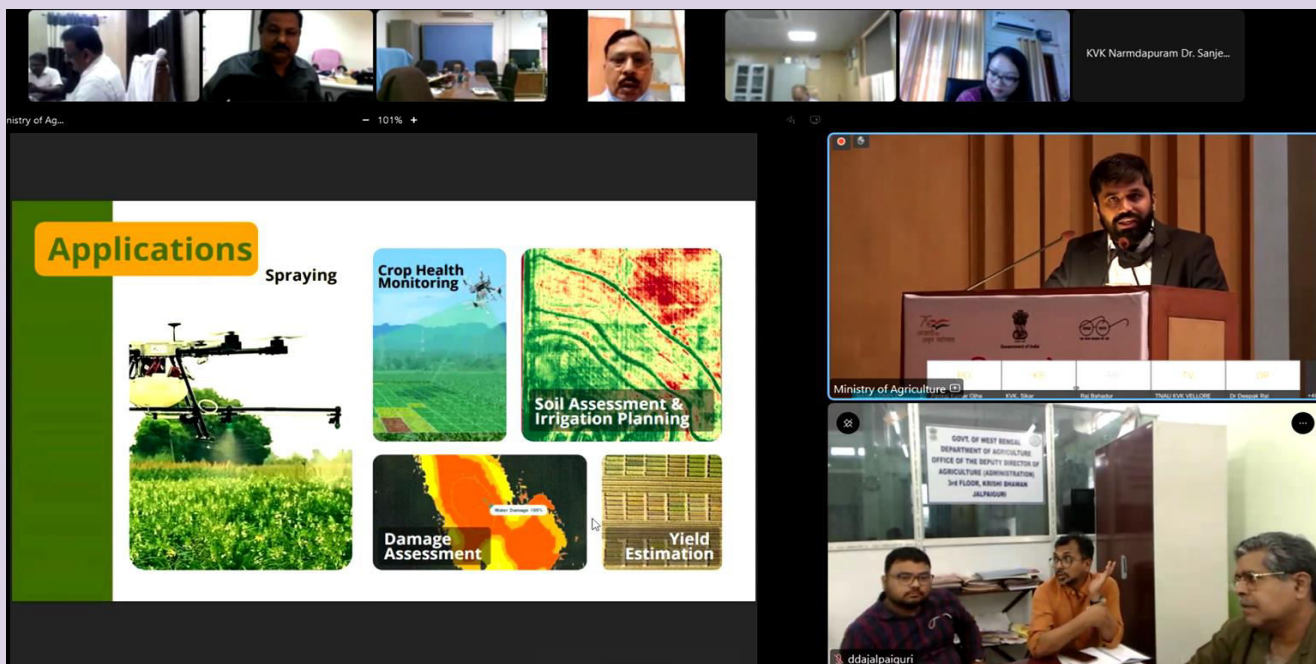
Participation of ATARI in Virtual meeting on promotion of Kisan Drones: Issues, Challenges & way forward



ICAR organised virtual programme on promotion of Kisan Drones at Pusa complex, New Delhi on 02.05.2022. All Scientist and CTO have participated this important programme. Actually Government of India promoted Kisan Drones among all KVKs through out the country. In Uttar Pradesh 25 Centres (KVKs, ICAR institutes and SAUs) has been identified for Drone Demonstration. Total budget of Rs 560 Lakh (Rupees Five Hundred Sixty Lakh Only) have been allocated to cover area of 19767.5 acre (8000 ha) under drone demonstration.

The Demonstration of Drones for spraying of agrochemicals will be started after its procurement (Drone procurement is under process). Following 25 centres were covered under Kisan Drone-

KVK Bijnor, KVK Meerut, KVK Bareilly, KVK Agra, KVK Sitapur-II, KVK Lucknow, KVK Lalitpur, KVK Chitrakoot, KVK Bahraich-I, KVK Mirzapur, ICAR-IGFRI, Jhansi, ICAR-IIPR, Kanpur, ICAR- IISS, Mau, ICAR- IISR, Lucknow, ICAR- NBFGR, Lucknow, ICAR-CISH, Lucknow, ICAR- IIVR, Varanasi, ICAR-IIFSR, Meerut, ICAR- CARI, Jhansi, ICAR-CIRG, Mathura, ICAR- IVRI, Bareilly, SVPUA&T, Meerut, ANDUAT, Ayodhya, RLBCAU, Jhansi, CSAUAT, Kanpur



Challenges and Way forward : Pesticide and Crop Nutrient application	
Challenges	Way forward
<ul style="list-style-type: none"> High initial cost of drone (Affordability issue) 	<ul style="list-style-type: none"> Custom hiring use of drone Drone under SMAM scheme providing 100% subsidy to ICAR Institutes and SAU's , and 75% to FPOs
<ul style="list-style-type: none"> Drone compatible pesticides and crop nutrients 	<ul style="list-style-type: none"> CIB&RC gave interim approval to 477 pesticide formulations for application through drones.
<ul style="list-style-type: none"> Adoptability by farmers 	<ul style="list-style-type: none"> Large scale demonstration at farmers field (Seeing is Believing) Policy support under SMAM upto Rs. 6000 per hectare for demonstration on farmer's field
<ul style="list-style-type: none"> Significant influence of sprayer parameters, flight parameters, and environmental factors on droplet deposition level in target crops 	<ul style="list-style-type: none"> Scientific study To generate data on effect of different design and operational parameters on spray quality and bio-efficacy with UAV assisted spraying optimization of parameters for spray quality and efficacy with drone assisted spraying in major crops <u>under different agro-climatic zones</u>



STATUTORY COMPLIANCES

As per provision envisaged under the **Insecticide Rules 1971, Chapter VIII Rule 43 on Aerial Spraying Operations**, the aerial application of Insecticide (pesticides) shall be applicable for pesticide application through drones subject to the following provisions:

- Marking of the area shall be the responsibility of the operators
- The operators shall use only approved insecticides and their formulations at approved concentration and height;
- Washing decontamination and first-aid facilities shall be provided by the operators
- All aerial operations shall be notified to the public not less than twenty-four hours in advance through competent authorities.
- Animals and persons not connected with the operations shall be prevented from entering such areas for a specific period
- The pilots shall undergo specialization training including clinical effects of the insecticides.



- **143 m ha** of Net Sown Area of India
 - Need **9.0 Lakh drones** to cover entire 143 m ha
 - Creates **18.0 lakhs** direct employment and **27.0 lakhs** indirect employment i.e. **(Training, after sales, spares etc.) 45.0 lakhs** employment at field level
 - A minimum of **50 lakhs** of additional employment by Mfg. Industry.
- (Initial estimates of ANGRAU, 2022)**



Celebration of International Yoga Day

Celebration at ICAR-ATARI, Kanpur

ICAR-ATARI, Kanpur organised International Day of Yoga on 21.06.2022 under “Azadi Ka Amrit Mahotsav”. In this programme total of 25 staff were attended early in the morning @ 6:30 AM and did different yoga asanas in presence of Expert Yoga Guru. Asanas like Padmasan, Halasan, Trikonasan, Rikshasan, Tadasan, Shavasana, Naukasan, Bhujangasan etc has been experienced by all participants. All Yogasans took one and half hour time. After Yoga all staff were enjoyed with light refreshment.



Celebration at KVKs of Uttar Pradesh

Similarly under “Azadi Ka Amrit Mahotsav”, campaign was organized on themes like Celebration of International Yoga day, awareness on balanced use of fertilizers and awareness on region specific agroforestry on 21st June 2022 by 89 KVKs in Uttar Pradesh. Various events like Seminars, training programmes, goshies, exhibitions etc were organized and total 5090 No. of farmers, farmwomen, other stakeholders, MPs and MLAs have participated in this programme. All the participants were made aware about various asanas, pranayaam and healthy lifestyle for physical and mental wellness. Awareness was also created to stop excessive use of fertilizers/chemicals and area specific agro-forestry models and their technologies and their benefits.



Other Meetings/workshops/National Symposium

Date	Subject
4/04/2022	Visit to KVK Ganiva, Chitrakoot & DRI chitrakoot for finalization of International program
8/04/2022	Meeting of ScSC for selecting member NRM Group and ASRB, National Dialogue on Innovative Extension
12/04/2022	VC and ICAR Director conference
15/04/2022	1 st International conference on SDG Interventions 15 th – 17 th Apr 2022 Chitrakoot.
21/04/2022	Role of Integrated Pest Management (IPM) in “Doubling Farmers”. Interaction Meet with Trainee in KVK Bareilly.
23/04/2022	Workshop on ARYA Project as a Chief Guest at KVK Kaushambi.
25/04/2022	National workshop on “Innovative Agriculture ” from 10:00 AM To 4:30 PM at Vigyan Bhawan , New Delhi
10/05/2022	Managing Soil for Food and Climate Security and Advance SDGs of the UN
11/05/2022	AI and IOT: Enabling sustainable Digital Agriculture
17/05/2022	Participation in 52 nd Annual Group Meeting of All India Coordinated Research Project on Soybean to be held at Indore from 17-18 May 2022 through Hybrid Mode
20/05/2022	Online Kharif Planning Meeting
24/05/2022	National Symposium on Indian Agriculture after Independence
6/06/2022	Lecture #60 – Poverty , Hunger , structural transformation and sustainability : India and the rest of Asia
08.06.2022	Review of DFI by DDG (AE) on 08.06.2022
15.06.2022	Virtual EFC meeting organised for Directors of Extension
20/06/2022	Women in leadership role in India Lecture #63 Azadi Ka Amrit Mahotsav
23/06/2022	Scientist Stakeholder Workshop on – Climate Smart Agriculture for sustainable Productivity in the Sodic Soils of Uttar Pradesh at ICAR CSSRI, Lucknow.
24.06.2022	Virtual Participation in QRT Recommendations meeting with Secretary DARE & DG ICAR and DDG (AE)
30/06/2022	Gorakhpur KVK Meeting Physically

Quarterly Progress Report (April-June, 2022)

S. No.	Activities	Targets achieved
1	On- Farm Trials Conducted (Nos.)	41
2.	Frontline Demonstrations Conducted (Nos.)	1590
3.	No. of Farmers and farm women Trained (Nos.)	6945
4.	No. of Extension Personnel Trained(Nos.)	711
5.	Production of Seeds (in Quintals)	4201.00
6.	Production of Planting materials(inlakhs)	0.87
7.	Production of livestock strains & fingerlings(inlakhs)	25.00
8.	Soil and water samples tested (Nos.)	1136
9.	No. of Farmers provided mobile agro-advisory (in lakhs)	5.35
10.	No. of Farmers and other stakeholderBenefitted through various Extension Activities (in lakhs)	0.93



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