

# Newsletter

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ICAR-Agricultural Technology Application  
Research Institute (ATARI), Kanpur (U.P.) India

ISO 9001:2015 Certified Institute

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## Director's Message



Emergence of frontier technologies and their application in agriculture proves to enhance the efficiency of farming systems. At the same time, zero external input based natural farming hold potential for ensuring the sustainability of production system and making it economically robust. Application of Drone in agriculture is one such frontier intervention for bringing precision in farming. In the state of Uttar Pradesh, total 29 drones have been procured by different ICAR institutes, SAUs and KVKs (out of 32 sanctioned) and the associate pilots (28) have also ben trained for its application. Likewise, 52 KVKs have been engaged in the on-farm as well as on-station demonstrations on natural farming protocols and comparing the performance with the conventional chemical inputs based plots.

As the newly joined Director of my Institute, I have prioritized the focused areas for enhancing the science-based and evidence-based visibility of KVKs (89) of Uttar Pradesh. The very core of KVKs i.e. on-farm farmer participating adaptive research (OPPAR) shall be further strengthened besides building their capacity for establishing hunger-free village, strengthening youth entrepreneurship and their institution building, smart rationing for livestock, ensuring speeder adoption of farmers' preferred crop varieties and technologies in a given village or its cluster.

The ICAR-ATARI, Kanpur is largest zone of India with 89 KVKs under various host organization. Therefore, managing its performance become more exiting. I am expecting all round support from the different host institutions KVKs in Uttar Pradesh and from ICAR officials and related partners for forging agricultural development in Uttar Pradesh state.

(Shantanu Kumar Dubey)  
Director

## Virtual Participation in DGs New Year Celebration programme



All the scientists and staff of ICAR-ATARI, Kanpur participated in the celebration of New Year (2023) programme that was organized at ICAR-IARI, Pusa, New Delhi in hybrid mode.

In this programme DDG(AE), Dr. U.S. Gautam; Director of IARI, New Delhi; other DDGs of ICAR; Chief FAO and other important delegates were present on the dias. Programme was started by cricket match between IARI and ICAR H/Q Team. On this occasion Secretary DARE & DG ICAR Dr Himanshu Pathak reiterated how we recovered from the COVID-19 shocks and made significant achievements and reforms in agricultural sciences in India. Towards the nation's food and nutrition security, 467 varieties of field crops and 122 varieties of horticultural crops have been released by ICAR during this year which include 23 varieties developed through marker-assisted selection and 18 biofortified varieties". He also added advancing the digital applications, a web-GIS tool for location specific riverine fisheries management, eHRMS, ICAR-DARPAN Dashboard, Land Record Management Information System, Kisan SARTHI, and NePPA were developed.

Innovations in climate resilience, nature-friendly farming, diversified agriculture and climate resilient integrated farming system for augmenting productivity and farmers' income have been our thrust areas. Our machineries are getting wider acceptance for various on-farm operations as well as post-harvest processing.

and value addition. Our mechanical interventions have brought down the incidence of rice residue burning significantly". He also added significant achievement made by the KVKs across the country



## New Joining at ICAR-ATARI, Kanpur



**Dr. Shantanu Kumar Dubey** joined as Director of ICAR-ATARI, Kanpur on 13 February, 2023. Previously, he was Principal Scientist (Agril. Extension) in the same institute since last 10 years. He earned his Masters and

Doctorate degree in Dairy Exten. Edu. from ICAR-NDRI, Karnal. He is well known ICAR scientist. He is handling ICAR funded research projects and International Projects as well and his work is being appreciated at various forum.



**Dr. S.K. Singh** joined as a Principal Scientist (Agril.Extension) on 1<sup>st</sup> March, 2023. Previously, he was Director of ICAR-ATARI, Jodhpur (Zone-II). He is expert extension

professional and has vast experiences in farmer-centric on-farm technology application process and methods. He has established new KVKs, admin building of ATARI( Zone-II) under his leadership. His work was appreciated by ICAR at different occasions.

## ICAR, ATARI, Kanpur celebrated its 15<sup>th</sup> Institute foundation Day



ICAR-ATARI, Kanpur celebrated its 15<sup>th</sup> institute foundation day on 19.03.2023. In his address, Honorable Chief Guest Prof. Vinay Kumar Pathak, Vice-Chancellor, CSJMU, Kanpur emphasized that this century is about skill, and along with a degree, skill is very important. He said that agriculture is not limited to any one subject. There are many innovative farmers who excel despite not having degrees in agriculture-related fields. During his address he told that Chhatrapati Shahu Ji Maharaj University, Kanpur and ICAR-ATARI, Kanpur will work jointly for benefit of farmers and students. Earlier in his address, Dr. Shantanu Kumar Dubey, Director, ICAR-ATARI Kanpur welcomed all the guests and narrated about the progress, activities and achievements of ATARI Kanpur over

the years. He briefed about the mandate and activities of institute and special programs like CRM, NICRA, ARYA, DAMU, Agri-Drone, CFLD, Natural Farming etc. He mentioned that, this office evolved from Zonal coordination unit to Zonal Project Directorate and now functioning as Agricultural Technology Application Research Institute (ATARI) since July 2015. On this occasion, MoU was also signed between Chhatrapati Shahu Ji Maharaj University, Kanpur and ICAR-ATARI, Kanpur and three progressive farmers were honored.

Special guests Prof. (Dr.) Ankush Sharma, Incharge Startup incubation and innovation centre, I.I.T. Kanpur and Prof. (Dr.) Sudhir Kumar Awasthi, Pro Vice-Chancellor, Chhatrapati Shahu Ji Maharaj University, Kanpur also presented their views. Progressive farmers and Head KVKs from Unnao, Pratapgarh, and Lucknow, professors and students from CSJMU, Kanpur also took part in this program.



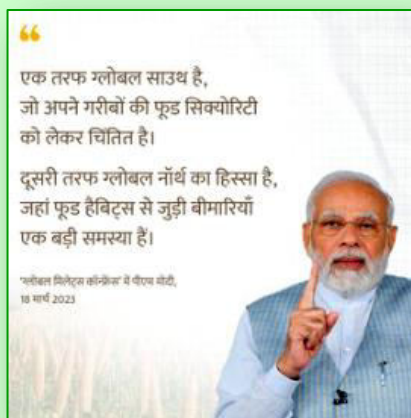
## Participation in Global Millet (Shree Anna) conference



A two days Global conference was organized on Global Millet (*Shree Anna*) during March 18-19, 2023 at NASC, New Delhi. Inauguration was done in Gracious presence of Shri Narendra Modi, Hon'ble Prime Minister. Other dignitaries present were Shri Narendra Singh Tomar ji, Dr. Mansukh Mandviya ji, Shri Piyush Goyal ji, Shri Kailash Chaudhry ji, agriculture ministers of different countries and representatives of various international and national organisations. Many participants from different parts of the world and from India like ICAR, KVKs, FPOs, startups, industries farmers and farmwomen etc. were also connected virtually in this programme. Shri Narendra Singh Tomar ji delivered welcome address and highlighted the importance of millets in our life for food and nutritional security and climate change adoptability.

ICAR-IIMR, Hyderabad was also declared as Global Centre on Millets during this occasion. Grand Exhibition of value added millet based products was the main focus of this conference. Discussions were held with various industrialists about their linkages with millet farmers and their strategies and mechanisms for procuring, processing, branding and marketing of millets based products.

Various technical sessions of ICAR, FSSAI and confederation of Indian Industry were successfully organized. Deliberations were held by ICAR on environmentally sustainable production system through climate resilient millets, genetic interventions, millet genomic resources, crop technologies in millets on 1<sup>st</sup> day and post harvest processing, value addition and nutrition in millets on 2<sup>nd</sup> day of the conference. Dr. Sadhna Pandey, PS (HSc.E.) participated in this Global conference from ICAR-ATARI, Kanpur.

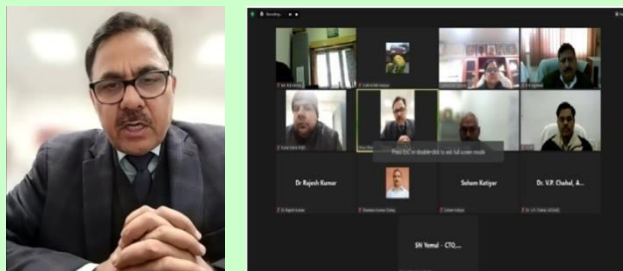


## IMC Meeting organized by ICAR-ATARI, Kanpur



Institute Management Committee Meeting (IMC) was organized by ICAR-ATARI, Kanpur on 11.01.2023. Purpose of this meeting was to appraise the institute work in front of IMC members accordingly IMC reviewed the progress made during the period. The recommendations emanated were compiled and sent to Council. The approved recommendations were duly circulated to all the members of IMC.

In the beginning, Sh. R.B. Verma, AAO welcomed all the members of IMC. Director (Acting), Dr. Sadhna Pandey made in-depth deliberations regarding mandated technical achievements along with various projects/Special programmes run by the ICAR-ATARI, Kanpur. The progress of various projects/special programmes such as ARYA, NICRA, Farmers FIRST, MGMG, SCSP, TSP, CRM, ASCI, Natural farming, DAMU, Drone etc were also discussed by Dr. Shantanu Kumar Dubey, PS (AE) and Dr. Raghwendra Singh, PS(Hort.).



In this meeting member of IMC Dr. Dr. Shiv Dhar Mishra, Pr. Scientist (Agro.), IARI, New Delhi, Dr. R.K.Agarwal, Pr. Scientist, IGFRI, Jhansi, Dr. Rajesh Kumar, Pr. Scientist, IIPR, Kanpur (presently posted at ICAR-ATARI, Guwahati) and Dr. V.P. Chahal representative of the ICAR as nominated by

the DG, ICAR also participated virtually. Shri Kunal Kalra, SFAO of ICAR-IIPR, Kanpur and Shri S.N. Yemul, CTO, ICAR-ATARI, Kanpur also participated virtually. Shri R.B. Verma, AAO & Institute Member Secretary shared the infrastructure and staff position of the Institute and KVKs of Uttar Pradesh. Meeting ended with vote of thanks by the Director.

## Participation in NICRA-TDC ZMC at CRIDA, Hyderabad

Two day (2 Day) meeting of NICRA Technology Demonstration component (TDC) on 11<sup>th</sup> and 12<sup>th</sup> February, 2023 at ICAR-CRIDA, Hyderabad. On first days meeting started at 10.30AM this program was inaugurated by Dr. Suresh Kumar Chaudhari DDG (NRM) Dr. S.K Chaudhari gave a very important speech about said meeting and explained the importance of NICRA program.

A brief presentation on overview of NICRA program presented by Dr. M. Prabhakar, PI-NICRA overview of Technology demonstration component. From this insitute Dr. Raghwendra Singh, PS (Hort.) and Dr. Rajeev Singh, SRF attended the workshop



## Participation in Inauguration of ICAR ATARI Pune admin building

ICAR-ATARI, Kanpur participated in inaugural function of admin building of ICAR-ATARI, Pune. On this occasion Hon'ble MOS Shri Kailash Chaudhari chaired as a Chief Guest. Vice Chancellor of Rahuri Krishi Vidhyapeeth, all Director Extensions and staff of ATARI, Pune participated under leadership of Dr. Lakhnan Singh, Director, ICAR-ATARI, Pune



## Participation in Divisional Review Meeting

The Divisional Review Meeting of Agricultural Extension was conducted during January 05 – 06, 2023 in Conference Room No. 304, 3rd Floor, Krishi Anusandhan Bhawan – I, Pusa, New Delhi under the Chairmanship of DDG (Agricultural Extension) with all ATARI Directors.

Dr. U.S. Gautam, DDG (Agril. Extn.), ICAR welcomed all the members and wished everyone a very happy New Year. He took stocks of progress including status of staff in ATARIs and KVKs, status and purchase of drones and demonstrations by drones, budget utilization of KVK scheme, unspent balance of 7th CPC, skill development programmes conducted during the period of 2020-23, Natural Farming Project, Farmer FIRST Programme, status of budget provided for purchase of farm machineries and other equipment, Annual Action Plan (January to December 2023), Network Project, CSISA Project, DAMU Project, ARYA Project, etc.

The Secretary (DARE) & DG, ICAR was invited by the DDG (Agril. Extn), on 6th January 2023 in the Divisional Review Meeting. The DDG (Agril. Extn) welcomed the Secretary (DARE) & DG, ICAR and briefed him about different activities of the Division. The Secretary (DARE) & DG, ICAR wished a happy New Year to all the members and conveyed that KVKs are being discussed and viewed with much more emphasis and interest at the higher level. He hoped that some good thing can be expected in terms of finance and budget, either in the Budget announcement or some other way. He desired that 'One-Point Solution' for agriculture, education, health, etc., may be provided by those 66 KVKs which are under direct administrative control of ICAR Institutes. Roadmap or plan for upgrading those 66 KVKs and their capacity building may be submitted in a couple of days. He also put stress over upgradation of average KVKs. Dr. Sadhna Pandey, Director (Acting) from ICAR-ATARI, Kanpur, participated in this meeting.

## Participation in International Extension Education Conference



International Extension Education Conference on “Innovative Applications in Agricultural Extension for Sustainable Food & Environmental Security” was organized at BHU, Varanasi on 27 January, 2023. In this conference Dr. Sadhna Pandey, Director (Acting) Presented the paper on “Assessment of nutri sensitive foods and technologies by KVKs in Uttar Pradesh” from ICAR-ATARI, Kanpur. In her presentation, she has highlighted the major point that “Nutri-Sensitive Agricultural Resources and Innovations (NARI) Programme is a flagship programme initiated by ICAR at national level. Nutrition-sensitive agriculture is an important part of ending malnutrition through multi-sectoral action”

## Foundation of Admin Building of KVK-II Hardoi by Hon'ble Agricultural Minister, U.P



Hon'ble Minister of Agriculture, Agriculture, Agriculture Education and Agriculture Research, Uttar Pradesh state, Shri Surya Pratap Shahi Ji did Bhumi Pujan and laid the foundation stone for Admin Building of KVK-II, Hardoi on 26<sup>th</sup> March, 2023. Four days Kisan Mela/Exhibition was also organized during 26-29 March, 2023. Director, ICAR-ATARI Kanpur Dr. Shantanu Kumar Dubey and Head KVK-II Hardoi were also present on this occasion.

## ATARI conducted virtual review meeting on budget utilization with all Directors of Extensions



After joining as a Director of ICAR-ATARI, Kanpur, Dr. Shantanu Kumar Dubey called upon the first virtual meeting with all Directors of Extension on 13.02.2023. After warm welcome and congratulations by all Directors of Extension, a discussion on budget

utilization were made and Director said to ensure full utilization of allotted fund before 31<sup>st</sup> of March, 2023. He also added to speed up all the pending purchases by KVKs if any and utilize 100% fund before ending of financial year.

## Participation in SAC meeting of KVK Unnao



Asso. Director, Central Integrated Pest Management Centre, Lucknow and Other officials from Line Department, farmers and all KVK staff have also participated. In this meeting last year progress report have presented by Dr. A.K. Singh, Head KVK Unnao. Respective subject matter specialist have also presented their progress of OFTs. Experts also discussed on emerging issues on Natural farming, use of Drone, FPO and climate change. Some suggestions for farmers regarding increase of income were also discussed.

SAC meeting was organized at KVK Unnao on 22.03.2023. In this meeting, Shri. S.N. Yemul, Chief Technical Officer from ICAR-ATARI, Kanpur have participated. He discussed on OFT, database and budget related matter. In this meeting Dr. Manorama Singh, Sr. Regional Director, IGNOU, Lucknow chaired as a Chief Guest. Dr. Manish Mishra, PS from ICAR-CISH, Lucknow; Dr. Mukul Tiwari, Dy Director (Agril.), Unnow; Dr. Vijendra Singh,



## Extension council meeting and Review of KVKs under SVPuat, Meerut



SVPuat, Meerut organised one day Extension Council Meeting and Review of KVKs on 23.02.2023 under the chairmanship of Vice Chancellor Dr. K.K. Singh. Dr. Shantanu Kumar Dubey, Director, ICAR-ATARI chaired as a chief guest of this event. On this occasion, Director said that KVK is playing an important role in Agriculture in the respective districts. They are working as a facilitator and collaborators for the benefit of farmers. Now the times come to apply

new and appropriate technologies at farmers field so that their income as well as livelihood may be improved.

On this occasion, Dr. P.K. Singh, Director Extension and innovative farmers also expressed their views



## Quarterly Progress Report (Jan-March, 2023)

▪ On- Farm Trials Conducted (Nos.)	106
▪ Frontline Demonstrations Conducted (Nos.)	4386
▪ No. of Farmers and farm women Trained (Nos.)	8673
▪ No. of Extension Personnel Trained(Nos.)	1756
▪ Production of Seeds (in Quintals)	469
▪ Production of Planting materials (in lakhs)	0.76
▪ Production of livestock strains and fingerlings(in lakhs)	15.00
▪ Soil and water samples tested (Nos.)	1199
▪ No. of Farmers provided mobile agro-advisory(in lakhs)	6.50
▪ No. of Farmers & other stakeholder benefitted through various Extension Activities (in lakhs)	0.78



### Other meetings/workshops/events

S.No.	Date	Details
1	09.01.2023	Organized virtual IMC meeting of ICAR-ATARI, Kanpur
2	10.01.2023	Organized virtual meeting on Natural farming
3	17.01.2023	Participation in virtual meeting on Natural Farming with DDG (AE)
4	21.01.2023	Virtual participation in the seminar on “Integrated Crop Residue Management”
5	31.01.2023	Virtual participation in SAC Meeting of KVK Meerut
6	02.01.2023	Virtual participation in the New Year Celebration meeting with Secretary (DARE) & DG (ICAR)
7	02.02.2023	Virtual Participation in the meeting on Utilization of Budget-Expenditure with DDG (AE)
8	04.02.2023	Participation in the interview for the post of SMS (Home Science) at KVK-I Ghazipur
9	9-10 Feb., 2023	Participation in interview for the selection of technical post at KVK-II, Sitapur
10	13.02.2023	Budget Expenditure meeting with all Directors of Extension
	21.02.2023	Organised virtual DFI meeting
11	22.02.2023	Participation in Extension Council Meeting organized by SVPUAT, Meerut
12	22.02.2023	Dr. Sadhna Pandey, PS (HSc & Extn.) attended the selection committee meeting for the recruitment of vacant posts of Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur.
13	22.02.2023	Participation in the training on e-Office organized by ICAR-IASRI, New Delhi
14	24.02.2023	Virtual Participation in the meeting on “SAMARTH” organized by Ministry of Agriculture, New Delhi
15	25.02.2023	SAC Meeting at Ghazipur-I
16	26.02.2023	Virtual Participation on Strategic Planning Meeting at ICAR, IIWBR, Karnal
17	26.02.2023	Participation of Director in International Seminar organized by DRI, Chitrakoot
18	27.02.2023	Participation in Rashtriya Sangosthi organized by DRI, Chitrakoot
19	27.02.2023	Participation in Kisan Mela organized by KVK Haidergarh
20	28.02.2023	Participation in the meeting on eHRMS organized by ICAR-IASRI, New Delhi
21	01.03.2023	Organized monthly staff meeting of ICAR-ATARI Kanpur
22	02.03.2023	Participation in Kisan Mela at KVK Shahjahanpur
23	4-6 March, 2023	Participation in Annual conference of VCs & Directors of ICAR Institutes at NASC Complex, New Delhi during 4-5 <sup>th</sup> March, 2023 and ICAR-Industry interface on 06.03.2023.
24	07.03.2023	Organized meeting regarding utilization of budget of NICRA-TDC
25	10.03.2023	Virtual participation in 94 <sup>th</sup> Annual General meeting through video conferencing on 10 <sup>th</sup> March, 2023.
27	15.03.2023	Virtual participation in the meeting on Man Ki Baat of Hon’ble PM with DDG(AE)
28	17.03.2023	Participation in Kisan Mela and Krishi Udyog Pradarshani at ANDUAT, Ayodhya
29	24.03.2023	Participation in the programme entitled “ Shri Anna (Milletes) ka utpadan evam niryat badhane ke prayas”
30	26.03.2023	Participation in the inauguration programme of Admin Building of KVK-II Hardoi
31	31.03.2023	Virtual participation in Review meeting of eHRMS organized by ICAR-IASRI, New Delhi



**डॉ. दया एस. श्रीवास्तव**  
वरिष्ठ वैज्ञानिक एवं अध्यक्ष  
कृषि विज्ञान केन्द्र - 2 कटिया, सीतापुर

# मैं नए भारत का आत्मनिर्भर किसान हूँ



मैं नए भारत का आत्मनिर्भर किसान हूँ  
अपनी माटी का लाल हूँ,  
विविधीकरण का उपहार हूँ  
धरती का स्वास्थ्य बढ़ाने,  
पर्यावरण का चित्रकार हूँ  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

मित्र जीवों का परिवार हूँ,  
शत्रु कीटों के लिए नरसंहार हूँ  
जलवायु परिवर्तन से निपटने,  
उन्नत बीजों का अनगिनत भंडार हूँ  
कुपोषण भगाने, रोजगार बढ़ाने, गरीबी मिटाने का हथियार हूँ,  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

ना कोई अनुदान, ना कोई कर्ज, ना कोई दया का अर्जकार हूँ,  
अपनी मेहनत, निष्ठा और लगन के साथ आगे बढ़ने वाला नौजवान हूँ  
अपना बीज, अपनी खाद, अपनी दवा बनाने का हुनरकार हूँ  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

गुणवत्तायुक्त अन्न उत्पादन करने का जानकार हूँ  
अपनी मेहनत से वैश्विक कुपोषण, भुखमरी भगाने वाला दृढ़ संकल्पित इंसान हूँ  
फसल लागत कम करने का नया आयाम हूँ  
जहर मुक्त खेती की पहचान हूँ  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

परंपरागत तकनीक एवं वैज्ञानिक विधि की पहचान हूँ  
कम लागत, कम जमीन में अधिक आय अर्जन का आयाम हूँ  
मैं आधुनिक भारत की विश्व में पहचान हूँ  
जल, जंगल, जमीन संरक्षण का पर्याय हूँ  
औषधियों की खेती कर पर्वतों पर रहने वाला नौजवान हूँ  
स्वच्छ जल में मोती, झींगा पैदा करने वाली महिला किसान हूँ  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

वनों से शहद, लाख, रबर उत्पादित करने वाला आदिवासी किसान हूँ  
बाढ़ ग्रस्त क्षेत्रों में मखाना, सिंघाड़ा, मछली पालन का कीर्तिमान हूँ  
ऊसर में आंवला, नींबू, बेर उत्पादन करने वाला युवा नौजवान हूँ  
घर के पिछवाड़े मुर्गी, बत्ख, केंचुआ पालन करने वाली महिला किसान हूँ  
मैं नए भारत का आत्मनिर्भर किसान हूँ ॥

मैं पशु पक्षियों और मित्र जीवों के लिए दयावान हूँ  
देश के वैज्ञानिकों का अनगिनत अभिमान हूँ  
अपनी खेती, अपनी जलवायु अनुरूप यंत्रों को विकसित करने वाला जानकार हूँ  
प्राकृतिक संपदा संरक्षण के लिए दृढ़ संकल्प इंसान हूँ  
विश्व में भारत का कीर्तिमान स्थापित करने वाला अभिमान हूँ  
मैं नए भारत का आधुनिक किसान हूँ ॥

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