



ICAR-ATARI, Kanpur Newsletter



भाकृअनुप-कृषि तकनीकी अनुप्रयोग संस्थान, कानपुर
ICAR-AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH INSTITUTE, KANPUR

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CONTENTS

About ICAR-ATARI, Kanpur	3
Zonal Workshop-2015	4
Salient Achievements	4
Abroad Visit.....	5
Workshop on : IFS model	6
DEEs Review meeting	6
Training on website Development.....	6
Launching of KVK websites.....	7
Sensitization Zonal Workshop on pulses & Oilseeds.....	7
Cluster FLD of Rabi Pulses(2015-16)	7
Tribal Sub-plan (TSP) Scheme	7
Mera Gaon Mera Gaurav.....	8
Pre-Kharif Campaign, PPVFRA.....	8
NICRA, World Soil Day.....	9
Spread of technologies	9
Smart farmers of ICAR-ATARI, Kanpur.....	10
जय किसान जय विज्ञान दिवस १५ अगस्त, २०१५, हिंदी चेतना मास सतर्कता जागरुकता सप्ताह.....	11
Director's Desk.....	12

*Wish you a
Happy New Year
2016*



Dr. S. Ayyappan

Secretary (DARE) & Director General (ICAR)
Krishi Bhavan, New Delhi 110 001

Message

This gives me immense pleasure to know that ICAR-ATARI, Kanpur is bringing out the newsletter "ICAR-ATARI, Kanpur". I am aware that ATARI, Kanpur is taking care of 81 KVKs from Uttar Pradesh and Uttarakhand states under different host institutions. This zone has unique identity of rainfed (Bundelkhand region), hill (Uttarakhand hills), dry and plateau (Sonbhadra) and irrigated (indo-gangatic plains) farming situations. Also, the state of Uttar Pradesh has the distinction to be the highest producer of rice (12 mt), wheat (25 mt), potato (145 mt), sugarcane (1325 mt), etc at the National level. The Zone is also recognized for its extra-ordinary contribution in National Pulses Demonstration project (2010-2013), pilot project on vKVK (2011-2014) and genesis of Farmers FIRST project.

The activities by the KVKs of this Zone need to be encapsulated and brought out in public domain through periodic publication. This news letter is an encouraging effort in this direction. I congratulate the ATARI's team of Scientists and officers for their sincere work in bringing out the first issue of this news letter.

I wish a great success to this professional effort.

(S. Ayyappan)

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Dr. A.K. Singh

Message

The technological innovations, policy support and the efforts of the farmers have brought food self-sufficiency in the country. The issue concerning soil health pulses, oilseeds and the climate change are on the top of the agenda. Greater emphasis is also being laid on quality farm produce through Good Agricultural Practices, technological innovations for improving cost-efficiency, augmenting productivity per unit area, efficient natural resource management and climate smart agriculture.

The Krishi Vigyan Kendras being strategically located, thus, have to play vital role in transforming agriculture with broad based approaches and knowledge sharing. In this context it is timely that ICAR-Agricultural Technology Application Research Institute, Kanpur is bringing out a News Letter highlighting the activities and achievements which may benefit farmers and extension personnel.

I congratulate the team of scientist and officials from ICAR-ATARI, Kanpur for bringing out the News Letter.

A handwritten signature in blue ink, appearing to be 'A.K. Singh'.

(A.K. Singh)

About ICAR-ATARI, Kanpur



Indian Council of Agricultural Research established Zonal Coordination Unit at Kanpur in 1979 to monitor transfer of technology projects. The Zonal Coordination Unit was upgraded as Zonal Project Directorate in March, 2009 and again upgraded as ICAR-Agricultural Technology Application Research Institute (ICAR-ATARI) in July, 2015. Presently, this ICAR-ATARI, Zone-IV, Kanpur is engaged in planning, monitoring, reviewing and supporting ICAR initiated technology dissemination projects mainly Krishi Vigyan Kendras in Uttar Pradesh and Uttarakhand.

Major functions of ICAR-ATARI, Kanpur

Planning, monitoring and reviewing of KVK activities in the zone; to identify, prioritize and implement various activities related to technology integration and dissemination; coordinating with SAUs, ICAR institutes/organizations, line departments and voluntary organizations in the zone for implementation of KVK mandated activities; and facilitating financial and infrastructural support to KVKs for effective functioning.

KVK and its Mandate

In Zone-IV, 81 KVKs have been established by the ICAR, out of which 68 KVKs are in Uttar Pradesh and 13 in Uttarakhand. Technology assessment and demonstration for its wider Application and to enhance Capacity Development (TADA-CD)

The activities of KVK

on-farm testing to identify the location specificity of agricultural technologies under various farming systems; organize frontline

demonstrations to establish its production potential on the farmers' fields; conduct training of farmers to update their knowledge and skills in modern agricultural technologies; and training of extension personnel to orient them in the frontier areas of technology development; to work as resource and knowledge centre of agricultural technology for supporting initiatives of public, private and voluntary sectors for improving the agricultural economy of the district. In order to create awareness about improved technologies, a large number of extension activities are being taken up; and to support various activities, the seeds and planting materials are also produced by the KVKs and made available to the farmers.

Thrust Areas for the KVKs under Zone IV

Keeping in view, the agro-climatic situation following thrust areas were identified for the KVKs operational in Zone IV:

- Sustainable production system through location-specific assessment and demonstrations of technology.
- Resource conservation through soil water conservation, watershed management and mechanization.
- Development and promotion of crop and enterprise diversification and alternate land use system.
- Integrated pest and disease management.
- Poultry, fishery, mushroom, etc. by production, processing, value addition and marketing for higher income.
- Empowerment of farm women and youth through income generating activities and reduction of drudgery.
- Alternate livelihood support system for marginal, landless labour and farm women to check rural migration.

Network of KVKs & Status of Staff Position

States	No. of districts	Details of KVKs			Total as on 2015-16
		SAU	NGO & Other	ICAR	
Uttar Pradesh	72	48	15	5	68
Uttarakhand	13	11	-	2	13
Total	85	59	15	7	81



Staff Position ICAR-ATARI-Kanpur

Status	RMP	Scientific	Technical	Admin	SSS	Total
Sanctioned	1	6	2	9	2	20
Filled	1	2	2	7	1	13
Vacant	0	4	0	2	1	7

Krishi Vigyan Kendra

Status	PC	SMS	PrgAsstt	Admin	Aux.	Supp.	Total
Sanctioned	81	486	243	162	162	162	1296
Filled	71	400	178	119	119	130	1017
Vacant	10	86	65	43	43	32	279

Zonal Workshop - 2015



Dr S.L. Goswami VC, CSAUAT, Dr. Akhtar Haseeb, VC, NDUAT & Dr. U.S. Gautam, Director, ATARI inaugurated the workshop

present during the three days event to deliberate upon the annual progress report (2014-15) and finalization of the action plan for the next year (2015-16).

Special Sessions during the workshop



Dr. Kaloo Gautam, Former DDG (Horti & Crop Sci.) ICAR New Delhi and Ex- VC in Special Session

A special session was also organized on 27/05/2015 at 12:30 PM in which the eminent agricultural research scientist, former DDG (Horti & Crop Sci.) ICAR New Delhi and Ex-Vice Chancellor of Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Dr. Kaloo Gautam presented key note address on technological

options for the farmers in the changing climate regime. He narrated the academic perspectives of climate change and described its practical implications in terms of both positive and negative impact on agriculture.

Interface of KVKs Accountant Comptroller and AF/AO, & Director was held during the workshop.

ICAR-Zonal Project Directorate, Zone IV, Rawatpur, Kanpur organized three days KVKs Annual Zonal Workshop during 26-28 May, 2015 in collaboration with CSAUAT, Kanpur. During the workshop, the Hon'ble Vice Chancellors of CSAUA&T, Kanpur and NDAUT, Faizabad Dr. Akhtar Haseeb and Dr. S. L. Goswami graced the occasion as the chief guest and guest of honour. The Directors of Extension of three state agricultural universities of Uttar Pradesh and Uttarakhand, scientists from the ICAR institutes of Uttara Pradesh, Programme Coordinators (PC) of 81 KVK and the innovative farmers of Uttar Pradesh and Uttarakhand were also

Salient Achievements

1. Quality seed & planting material production

Seed Production

Enterprise	Uttar Pradesh	Uttarakhand	Total
Cereals	13034.26	726.15	13760.41
Oilseeds	232.33	105.59	337.92
Pulses	449.42	41.25	490.67
Vegetables	15.03	19.47	34.50
Commercial	607.37	3893.26	4500.63
Spices	252.45	7.43	259.88
Fodder	10.52	0.20	10.72
Total	14601.38	4793.35	19394.73
Target (@200 q/ KVK/annum)	13600.00	2600.00	16200.00
Surplus/gap	+1001.38	+2193.35	+3194.73

Planting Material Production

Enterprise	Uttar Pradesh	Uttarakhand	Total
Vegetable	1252630	9815262	11067892
Fruits	29521	12176	41697
Ornamental	57854	5900	63754
Medicinal & Aromatic	101	200	301
Forestry/ plantation	23128	-	23128
Other	-	9000	9000
Total	1363234	9842538	11205772
Target (@20000/ KVK /annum)	1360000	260000	1620000
Surplus/gap	3234	9582538	9585772



Bio Product & Livestock strains production

Category	Uttar Pradesh	Uttarakhand	Total
Bio Product (Kg)	70926.45	244.65	71171.10
Livestock (No.)	3779	227	4006
Fisheries (lakh)	41.32	-	41.32



2. Technical Achievements

Training Programmes

Clientele	Courses	Male	Female	Total
Farmers & Farm Women	6464	110397	34371	144768
Rural Youths	893	12883	4085	16968
Extension Functionaries	692	11593	2393	13986
Total	8049	134873	40849	175722



Technology Assessment & Refinement

Category	Uttar Pradesh		Uttarakhand		Total	
	TA	TR	TA	TR	TA	TR
Crops	224	79 (35.26 %)	56	44 (78.57%)	280	123 (43.92%)
Livestock	47	8 (17.02%)	10	3 (30.00%)	57	11 (19.29%)

June 3-10, 2015

Washington, USA

Dr. U.S. Gautam, Director, ICAR-ATARI, Kanpur visited Washington, USA

Dr. U.S. Gautam visited for joint learning and experience sharing event on "Strengthening agricultural research, extension and input markets in South Asia: Evidence from regional and global practice" held in Washington, DC on June 3-10, 2015. This event is being converted by the Modernizing Extension and Advisory Services (MEAS) Consortium, the Cereal systems Initiative for South Asia (CSISA) and the International Food Policy Research

3. Extension Programmes

A large number of extension activities were organized by KVKs of Uttar Pradesh and Uttarakhand. The major activities like advisory service (15792), diagnostic visits (4758), field days (627), group discussions (638), kisan gosthies (1827), film shows (419), self help groups (361), kisan mela (251), exhibitions (525), scientist visit (15334), plant/animal (301), etc. health camps (810), farm science clubs (214), ex-trainees meet (212), etc. KVKs of both states produced 19394.73 q seed valued at Rs. 322.23 lakh. KVKs of both states KVKs produced 11205772 planting materials including vegetable seedlings (11067892), fruit saplings (41697) & ornamental (63754), forestry (23128), medicinal & aromatic plants.



4. HRD & Publications

Category	JURISDICTION			
	CSAUAT	NDUAT	SVPuat	GBPU
Workshops	34	19	1	39
Conferences	18	11	-	14
Meetings	132	460	26	62
Trgs. for KVK officials	35	76	-	172
Visits of KVK officials	216	92	-	1016
Book published	12	3	-	9
Training Manual	654	3	-	14
Book chapters	6	10	-	4
Research papers	42	54	10	37
Lead papers	3	-	-	4
Seminar papers	38	22	-	17
Extension folder	103	118	-	30
Proceedings	21	26	-	12
Award & recognition	21	8	-	4
On going res. projects	4	10	-	9

5. Other achievements

Soil Sample Testing : 21403; SAC Conducted: 78

Abroad Visit



institute (IFPRI). This exciting event was organized at IFPRI's office, 2033 K St. NW Washington, DC and at various other sites in and around DC. The delegates comprises from South Asia i.e. India, Bangladesh and Nepal, and Indian team includes Dr. Ashok Kumar Singh, DDG (AE), Ajay Kumar Singh ZPD Zone-II, Dr. Rajbeer Singh ZPD zone-I, Dr. Anupam Mishra, ZPD zone-VII, Dr. U. S. Gautam ZPD zone-IV, Dr. Suhane, DEE, BAU Bihar and Er. P. Parikar Adl. Director Govt. of Odissa, Odissa.



17 August, 2015

Workshop on : IFS model for meeting out the challenges of the climate changes for small farmers

A one day workshop on *"IFS model for meeting out the challenges of the climate changes for small farmers"* on 17th August, 2015 was organised by ICAR-ATARI, Kanpur. This workshop was inaugurated by Dr. Rajbeer Singh, Director of ICAR-ATARI, Ludhiana. Total 12 Head of KVKs namely, Allahabad, Farrukhabad, Hardoi, Pratapgarh, Kannauj, Kaushambi, KanpurDehat, Mainpuri, Raebareilly, Sitapur-I, Sitapur-II and Unnao have participated. Dr. Rajbeer Singh expressed that how indian agriculture is facing the problem by soil fatigue due to intensive cultivation and serious imbalance in nutrient status. Dr. U.S. Gautam, Director, ATARI, Kanpur also emphasize on IFS model for small farming community.



Dr. Rajbeer Singh, Director ICAR-ATARI, Ludhiana & Dr. U.S. Gautam, Director ICAR-ATARI, Kanpur discussing on IFS model

07.09.2015

Director Extension Educations' Review Meeting and Digitizing KVKs for online Monitoring at ICAR-ATARI, Kanpur

ICAR-ATARI organized one day review workshop for the Directors of Extension of Agricultural, Veterinary and Deemed Universities; representatives of ICAR institutes, NGOs and educational institutes having Krishi Vigyan Kendras in the states of Uttar Pradesh and Uttarakhand for reviewing the work progress of KVKs and also to deliberate upon to evolve the roadmap for digitizing the KVKs for ensuring online monitoring system on 07.09.2015.



Interaction of DDG (AE) with the delegates

On this occasion, Dr. A. K. Singh, Deputy Director General (Exten.), ICAR expressed his views how to enhance the visibility of KVK in the district. He suggested that each KVK must work on some focused problem which is unique to the district and at least 4-5 technologies must be saturated in the district. He also shared his concern for timely execution of various works and procurement of different equipments so that the budget allocated in XII plan may be judiciously and effectively utilized.



Release of Telephone Directory of ICAR-ATARI, Kanpur & inauguration of Annexe Admin building by DDG (AE)

17,19,21 September, 2015

Training programme on Development & Designing of Website for KVKs

A one day training programme on *'Development & Designing of Website for KVKs'* was organised in three phases i.e. on 17.09.2015, 19.09.2015 and 21.09.2015. This training programme was mainly organised for Training Assistant (Computer) from different KVKs of Uttar Pradesh and Uttarakhand. On the 87th ICAR foundation day at Patna on 25th July, 2015, our Hon'ble Prime Minister and Agriculture Minister emphasized the strengthening of KVKs and make more visibility of the KVKs and digitalized it for

better information/database management, keeping the above matter as ICAR-ATARI, Kanpur decided for hosting of website of all KVKs for better monitoring and avoiding such queries under RTI and other matter. It is decided that each KVK should have their own website to accelerate day-to-day mandated activities and updating the information including online data submission.

(Extension) & Head Social Sci. ICAR-IIPR, Kanpur was present in the workshop. In this workshop 81, Heads of the KVK from Uttar Pradesh and Uttarkhand participated. The programme was started with the formal welcome address by Dr. Atar Singh, PS (Agronomy), ICAR-ATARI, Kanpur, after that the Dr. U. S. Gautam, Director, ICAR-ATARI, Kanpur presented brief remarks in the workshop with a presentation by which he directed to the house what are the mandates and guidelines of pulse programme. Director, ICAR-IIPR, Dr. N. P. Singh gave the few remarks about the present scenario and demand of the pulses. Production declined by 12% from previous year and the prices shoot up to 136%. He stated that the small processing unit may be established at village level to get relief from middleman.



2nd Oct, 2015

Launching of KVK websites

For development of a appropriate monitoring system and use of ICT's / on line monitoring system of KVK's i.e submission of MPR and QPR, vKVK, Kisan Mobile Advisory, use of social media tools viz What's App, Facebook etc., content management and digitization of KVK's, ICAR-ATARI, Kanpur developed their new website atarik.res.in. On 2nd October, Dr. Dhoom Singh, DE, CSAUAT, Kanpur Inaugurated ATARI website. All the staff members of ATARI were present during this occasion.

Cluster Frontline Demonstration of Rabi Pulses(2015-16) by different ATARIs of the Country

During the year Rabi 2015-16, technology demonstrations of improved pulses varieties and location specific packages were demonstrated by all the eight zones of ICAR-ATARI under the overall coordination by ATARI Kanpur. In all the eight zones, 14318.20 ha areas were targeted for sowing the Rabi pulses like chickpea, lentil, field pea, green gram & rajmash. Out of these, 12747.67 ha area were actually sown and 1489.75 ha area were converted summer/zaid pulses. Only 67.78 ha area remains unutilized. Zone wise area sown under rabi pulses were 773.87 ha, 4486.00 ha, 1024.00 ha, 2051.00 ha, 1094.20 ha, 1130.00 ha, 1722.60 ha and 466.00 ha in zone I,II,III,IV,V,VI,VII,VIII respectively. Maximum proportion of area converted to zaid pulses was from Zone-IV (697 ha) followed by Zone-I (292.758 ha), Zone-III (230 ha), Zone-VIII (206 ha) & Zone-VII (64 ha). All the eight zones also conducted two days Zonal Workshop cum training programme for KVK Scientists during the period of Nov. 2015 to 1st week of January 2016 in which more than 800 KVK scientists participated and benefitted.

18th & 19th November 2015

Sensitization Zonal Workshop Cum Training Programme on Frontline Pulses and Oil Seeds Demonstration held at ICAR-IIPR, Kanpur



Dr.U.S. Gautam, Director ATARI & KVK participants in the programme

ICAR-Agricultural Technology Application Research Institute (ATARI), Zone-IV, Kanpur organized two days sensitization zonal workshop cum training programme on frontline pulses and oil seeds demonstration during 18th & 19th November 2015 at conference hall of ICAR-IIPR, Kanpur. The programme was inaugurated by Director, ICAR-IIPR, Dr. N. P. Singh; Co-chaired by Dr. U. S. Gautam, ICAR-ATARI, Kanpur. Dr. Atar Singh and Dr. S. K. Dubey Principal Scientist of ICAR-ATARI, Kanpur and Dr. S. K. Singh PS

Tribal Sub-plan (TSP) Scheme in Uttar Pradesh and Uttarakhand



Handi craft made by tribals under TSP programme : LakhimpurKheri (U.P.)

TSP scheme is the programme which intends to ensure direct benefits to individuals or families belongs to Scheduled Tribes and outlay for area oriented schemes directly benefiting scheduled tribes hamlets/villages having more than 40% scheduled tribes population. Scheme attempts to develop agriculture and allied activities like irrigation, animal husbandry, dairy development, vocational training, etc. that provide a source of livelihood to the ST population may be included in this project. The project is being implemented in 10 districts namely Sonbhadra, Balrampur, Lakhimpur Khiri, Chamoli, Dehradun, U.S. Nagar, Nainital, Pithouragarh, Uttarkashi and Chitrakoot from Uttar Pradesh and Uttarakhand. This project envisage to address the social vulnerability of tribal farmers through minimizing the yield gap, enhancing the farm income and ensuring employment generation through the appropriate enterprises. During the period total 1200 demonstrations on cereal crops, pulses, vegetables, fodder etc were conducted among 750 tribal farmers.

Mera Gaon Mera Gaurav

Under ICAR promoted programme on Mera Gaon Mera Gaurav, ICAR-ATARI, Kanpur coordinated this programme being implemented by all the ICAR research institute working in Uttar Pradesh and Uttarakhand during March, 2015. In this programme it was envisaged that each scientist/group of scientist of the institute will identify a village & will be in constant touch with that village in order to facilitate flow of technical messages and advisories to the farmers. In this programme, scientists of the institutes visited the identified villages and convened meeting of the farmers and discussed various technical issues and other schemes run by the other organizations/departments for the farmers. The Director, ATARI is Nodal Officer nominated as the Zonal Nodal Officer for monitoring the programme in this zone. To implement this programme following institutes have taken the initiation –

IISR, Lucknow; CISH, Lucknow; CSSRI-RC Lucknow; SHIATS, Allahabad; BHU, Varanasi; PD-DSR, Mau; IIPR, Kanpur; CARI, Jhansi; IGFR, Jhansi; VPKAS, Almora; IISWCRT, Agra; CARI, Bareilly; IVRI, Bareilly; DCFRAB, Bhimtal; IISWC, Dehradun and NBAIM, Mau Nath Bhanjan.

Pre-Kharif Campaign

It has been decided by the council to hold pre-kharif campaign with financial assistance of Rs. 80000/- for each KVK to benefit the farmers of the districts. In this activity each KVK have been instructed to get the consent of the Member of Parliament of respective district for holding pre-kharif campaign, 2015. Total 61 KVKs in Zone-IV have been identified for the purpose. Total 56 KVKs of U.P. and Uttarakhand organized this event with participation of local M.P. and large number of farmers. Participating farmers were also distributed quality seeds and other critical inputs besides the training programme.

Most of Member of Parliament suggested the following points -

- KVK must organized mela, exhibition, meetings so that new technologies can be extended to farmers.
- Vocational trainings such as apiculture, dairy, piggery, poltry,

nutritional garden, candle making, vermi composting and soil testing etc. be conducted for empowering the socio-economic condition of the youth and women of the village. Rural women should be trained in health and hygiene.

- Adoption of the new technologies like vermi compost, NEDEP, bee-keeping, paddy cultivation through SRI, DSR, wheat cultivation through SWI, mushroom cultivation, Kharif Onion, Rabi, Kharif and Zaid Maize, use of balance feeding with mineral mixture for milch animal, kitchen garden for better health etc.
- Production of quality seeds/planting material for increasing the quality production and income.
- Farmers & their family members should also get insurance under 'Pradhan Mantri Surksha Beema yojna' and 'Pradhan Mantri Jeevan Jyoti Beema yojna' along with livestock insurance.
- Farmers may adopt KRISHI BIMA so that they may compensate their loss if it happens due to any natural calamities.
- Farmers should adopt organic farming and use more of bio product than chemical fertilizers



Pre-Kharif campaign organised at KVK Lucknow

April-June, 2015

PPVFRA (Protection of Plant Varieties and Farmer's Right Act)

KVKs of ICAR-ATARI, Kanpur has organized one day Training and Awareness programme to educate the progressive farmers on PPVFRA. In this programme, rules for farmer's varieties registration, its process, legal requirements and right to farmers regarding this aspect have been presented. The progressive farmers were also educated regarding available wide spread traditional varieties and technologies in the district. KVKs of U.P. (12) and Uttarakhand (3) have participated in this programme. Dr. Ravi Prakash from PPV&FRA, New Delhi describes the outlines, objectives and expected outcomes from the programme. He assured the gathering to provide all facilities which required for registration of their varieties or local technologies either it personal or community based. He also pointed that all types of facilities are free of cost to farmers. The registered farmers will treat equivalent to breeder. The use of this registered variety by other farmers or any seed producing company is only possible after permission and paid fixed amount.



PPVFRA programme at KVK Chitrakoot



K. Goshi organised under NICRA Project at KVK Bahraich
5th December, 2015

National Initiatives on Climate Resilient Agriculture (NICRA)

ICAR-ATARI, Kanpur are involved in coordinating NICRA project in UP(11) & Uttarakhand(2). Two more districts from Uttar Pradesh are also involved on sodic soil vulnerability. At district level, the selected KVK is responsible for implementing the project at village level through farmer's participatory approach. Under this programme, the interventions were focused only to address climate related constraints and to general agriculture development. In order to address the climatic vulnerabilities of the selected villages, different interventions were planned under the four modules. However, the specific interventions under each module for a particular village was need based and decided based on climatic vulnerability and resource situation of that village. During 2015 different activities under Technology Demonstration Components through various modules benefiting 22958 farmers (1302 natural resource management, 2656 crop production, 1447 livestock and fisheries, 4223 institutional interventions, 4136 capacity building- and 9194 extension activities).

World Soil Health Day

KVKs of ICAR-ATARI, Kanpur organized the event "Soil Health Day" on 5th December, 2015. In this programme KVKs have distributed Soil Health Card to the farmers through local MP/MLA/other dignitaries. Total 16382 Soil Health Cards have been distributed by the KVKs of Uttar Pradesh (13808) and Uttarakhand (2574) on this day.



Distribution of Soil health card at KVK Kaushambi

Spread of technologies

Direct Seeded Rice: KVK, Kushinagar : Demonstrations were conducted involving 116 farmers on an area of 39.22 hectare. Zero-till seed cum ferti drill was used for sowing at the seed rate of 40 kg/ha for improved varieties and 12.5 kg/ha for hybrid. Hybrid (PRH-10) yielded higher (62.55 q/ha, range: 53.87 to 78.52 q/ha) with lesser average cost of cultivation (Rs. 16950/ha) and net return of Rs. 44282 /ha under direct seeding.

Resource Conservation Interventions in Rice-Wheat System: KVK, Pratapgarh

Direct Seeded Rice technology was disseminated in 29.5 ha with 18 farmers in 5 villages viz Bhitari, Janwamau, Shekh Hisampur, Sabishpur and Ainthu in a radius of 10 km from the KVK upto 2003-04 which has gone to 18000 ha currently. There was saving of about Rs. 5000/ha in DSR over transplanting method.

Viability of Goat Rearing in Uttar Pradesh: Survey of 217 goat farmers in 40 districts of Uttar Pradesh showed that the small flock size (less than 15) was most profitable, followed by flock sizes of 16-30, 31-45 and above 45. Sale of one adult male goat gave income of Rs. 2500 to 3500. Barbary breed was found most profitable (net income Rs 1203/goat/year) due to its twice kidding within 19-20 months with higher percentage of twins & triplets. Jamunapari gave highest return through sale of milk, but lowest on sale of animals due to its yearly kidding. Jaunpuri gave the net return of Rs. 949/goat/year.

Honey Production: KVK Muzaffarnagar: 45 trainees started bee keeping through 40-50 boxes each and produced 30-35 q honey. Presently 550 farmers are involved in bee keeping through 80-110 boxes and each producing 80-90 qt honey. Some of the farmers have started the work at large scale with 300-400 boxes. Now after the processing, farmers are getting the price of Rs.125-130 per kg. Average profit has increases by Rs 50 per kg after processing.

Power Tiller in Hills: KVK Pithouragarh: District has 53 power tillers out of which 45 were purchased under the subsidy schemes of agriculture (21) and horticulture (24) departments and 8 were purchased by the farmers from their own resources. KVK remains a source of encouragement and training for them. Presently all 53 power tillers are in operation cultivating on an average 900 ha of land in each season.

Basmati Rice for higher Economic Gain: KVK Saharanpur: The average yield at farmer's field was recorded as 58.5 q/ha with cost of cultivation of Rs. 28887 to 32,600/ha. The rice recovery ranged between 72-75%. The

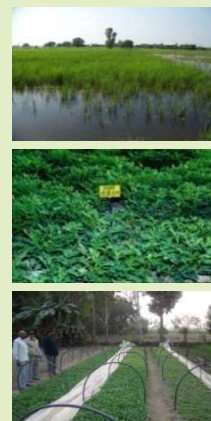


average net profit per ha for processed rice was recorded as Rs. 1,12,839/-. Net profit per ha for processed was recorded as Rs. 1,60,000/-. The area under this variety has now spread to more than 6000 ha in just two years.

Paddy variety for Submerged Condition: KVK Bahraich: Swarna Sub 1 variety gave average yield of 45.6 q/ha. KVK demonstrated 13.8 ha area under district. More than 600 ha area was covered in kharif (2010) under Swarna Sub 1 cultivar paddy variety. The average yield of the variety was recorded as 49.10 q/ha during the kharif season.

Summer Groundnut spread: KVK Mainpuri: About 371 villages & 92000 farmers are growing summer groundnut in the district with encouraging average yield (26.15 q/ha), gross return (Rs 53,500/ha) & net return (Rs 31500/ha) in district Mainpuri. The technology has spread to 16 districts covering 2.0 lakh ha area under summer groundnut in the state of Uttar Pradesh.

Commercial vegetable cultivation: KVK, Dehradun: Seeds of cabbage (Varun hybrid), cauliflower (Madhuri variety), okra (Sonal, Sarika, BSS-893 hybrid), cucumber (Malini hybrid), brinjal (Chaya and Anamika hybrid), chilli (Dushehra, Lahar and Divya Jyoti hybrid) was provided to the identified farmers. Earlier farmers were hardly getting Rs. 0.55 to 0.65 lakh/acre/year as net income from vegetables. A net return of Rs. 1.20 to 1.35 lakh/acre/year was realized by the farmers with adoption of technological interventions advocated by the KVK experts.



Smart Farmers of ICAR-ATARI, Kanpur

1. **Mr. Surya Prakash Bahuguna**, village Haripur, distt. Dehradun (Uttarakhand): Developed 'Amulya Amrit for pest & disease management in agri-horticultural system'. This farmer is recommending one liter mixture of Amulya Amrit in 5 liters of water. This mixture is used against foliar pest in paddy, pulses, oilseeds and vegetables. It is very effective in these crops as compared to use of conventional insecticides.

2. **Sri Narayan Singh Rawat**, distt.- Chamoli (Uttarakhand): He standardized 'Seed bio priming for early germination in cucurbits'. This practice leads to early germination of cucurbit seeds i.e in the month of February and is transplanted in the first to second week of March under open field condition when the chances of frost is over.

3. **Shri Ram Sharan Verma**, village (Jaitpur), distt. Barabanki (U.P.): Evolved 'Banana based farming system'. He perfected innovation in managing banana plants by cutting the plants at neck height after first harvest and reducing fertilizer application to half against recommended doses. This practice hastens the crop harvest by two and half months and gives about 10 kg per plant higher fruiting and additional gain of about Rs. 1.00 lakh per ha. The farmers earn Rs. 4.40 lakh/ha from banana cultivation.

4. **Moh. Ajam Khan**, Village - Khera Afgan, distt. Saharanpur - (UP): He perfected 'Window Opening Technique in Mango Orchard'. He introduced cutting of few branches in the central part of a plant so that light could come directly to all the branches which enhanced fruiting as well as resulted in drastic reduction in insect pest infestation particularly the mealy bug. This also resulted in reduced cracking of branches.

5. **Shri Sethpal Singh**, Village-Nandifirozpur, distt. Saharanpur (UP): He is practicing 'Intensive Vegetable Production System'. The vegetable crops viz., Fenugreek - French bean + Lobia - Bitter gourd - Bottle gourd - Spinach were grown in the system which gave a net profit of Rs. 3.53 lakh per ha. The vegetable production system provided higher income and job opportunities to the family members and a role model to other 50 farmers in the neighboring area farmers.

6. **Shri Rajpal Singh**, village- Jagaita, distt. Saharanpur (UP): He developed 'Introduction of Peach based farming system'. Peach based system viz. peach + cucumber-cucurbit-blackgram-spinach provides highest net profit of Rs. 3.43 lakh/ha followed by peach+brinjal+chilly of Rs. 3.39 lakh per ha.

7. **Shri Dheer Singh**, village- Noonikhera, distt. Muzaffarnagar (UP): He popularized 'Gladiolus as intercrop with Sugarcane'. Gladiolus has been introduced as intercrop on ridges as additional crop without disturbing the population of sugarcane in furrows and has been found profitable. This intercropping is giving net profit of Rs, 3.08 lakh per ha as compared to Rs. 0.93 lakh of sole crop. The average yield of intercropped sugarcane was obtained 1000 q/ha in addition to 150000 spikes, 75000 bulbs and 5q bulblets of gladiolus from 1.0 ha land

8. **Shri Ram Kishan**, village- Baseda, distt. Muzaffarnagar (UP): He successfully 'Intercropped with sugarcane'. Banana intercropped with sugarcane (6:1) is more profitable (Rs. 2.67 lakh/ha) in comparison to sole crop of sugarcane (Rs. 0.85 lakh/ha). The average yield of sole sugarcane was obtained as 800 q/ha while 500 q sugarcane and additional 300 quintal yield of Banana with this technology.

9. **Shri Jagdish Singh**, village- Chakwa Bujurg, distt. Etawah (UP): He is 'Inter Cropping Capsicum with Garlic (3:1)'. He sows garlic on ridge side in last week of September and after 20 days, he transplants capsicum in trench in 3:1 ratio. After incorporation of these technologies, he gets 250 q/ha of capsicum and 50 q/ha of garlic. After sale in market he gets Rs. 3.75 lakh of net profit.

10. **Sri Gulab Maurya** village Kadipur, distt. Jaunpur (UP): He 'enhanced Guava Production through Canopy Management in summer'. Farmers are getting more number of bearing and quality produce up to 40-50% and gain of Rs. 35000-42000/ha. as additional profit over pervious technique of guava rejuvenation.

11. **Mr. Mahtab Alam**, village Itwa, block Itwa, district Siddharthnagar: He is managing large scale poultry for socio-economic benefits. In the beginning of 2001, he constructed a tin shed poultry farm of 500 capacity and started to rear 500 chicks. He increased poultry farm capacity upto 1000 birds. At present time his net profit is reached about more than Rs. 65,000/- annually.

12. **Mr. Bhagwat Singh**, village Naiyapur Bujurg, district Gorakhpur (U.P.): 'Farmer's Extension Model of Mushroom Production for Nutritional Security'. He has developed a mushroom production unit on Kaccha house with bamboo. He is also involved youth in employment generation in span production and mushroom production by developing SHGs and FIGs at village level.





ड० पंजाब सिंह, कुलाधिपति (के.वि.झाँसी) किसान गोष्ठी में

कृषि एवं किसान कल्याण मंत्रालय के तत्वावधान में तथा भारतीय कृषि अनुसंधान परिषद् के सहयोग से कृषि विज्ञान केंद्र, चन्दाँली में विश्व मृदा स्वास्थ्य दिवस का आयोजन किया गया। केवीके चन्दाँली में डॉ. ए.के. सिंह, उप महानिदेशक (कृषि प्रसार), डॉ. ए.के. सिक्का, उप महानिदेशक (रा.सं. प्र.); डॉ. पंजाब सिंह, कुलाधिपति (के.वि.झाँसी); डॉ. ऊधम सिंह गौतम, निदेशक, अटारी, कानपुर, डॉ. राजवीर सिंह, निदेशक, अटारी, लुधियाना, डॉ. एस के दुबे, प्र. वैज्ञानिक एव श्री एस. एन. येमुल, अटारी, कानपुर के उपस्थिति में इसका आयोजन किया गया। इस अवसर पर डॉ. ए.के.सिंह, उप महानिदेशक (कृषि प्रसार) ने कहा कि केंद्र सरकार किसानों के उत्थान के लिए काम कर रही है। राज्य के सभी जनपदों में मृदा स्वास्थ्य कार्ड वितरित किये जा रहे हैं, ताकि मृदा कि जांच के आधार पर उर्वरोको का प्रयोग किया जा सके। डॉ. ऊधम सिंह गौतम, निदेशक ने कहा कि अधिक पैदावार के लोभ में किसान अंधाधुन्ध रासायनिक खाद एवं कीटनाशको का प्रयोग कर रहे हैं। इससे मृदा कि भौतिक व रासायनिक संरचना खराब होती जा रही है, इसलिए किसान बिना मृदा कि जाँच कराये खाद का प्रयोग न करें।



डा. ए.के.सिंह, उप महानिदेशक (कृषि प्रसार) किसान गोष्ठी में अतिथियों का सम्मान करते हुए

१५ अगस्त, २०१५

१५ अगस्त, २०१५ स्वतंत्रता दिवस को आईसीएआर-अटारी, कानपुर के समस्त अधिकारी एवं कर्मचारियों ने बड़े उत्साह से मनाया। इस अवसर पर डॉ. यू. एस. गौतम, निदेशक ने अपने भाषण में बताया कि किस तरह से सैनिकों ने अपना बलीदान देकर अपने इस महान देश को स्वतंत्रता दिलाई। साथ ही उन्होंने सभी कर्मचारी एवं अधिकारियों को अपना अपना १०० : दायित्वों को संस्थान को देने को कहा, जिससे संस्थान के साथ साथ देश कि भी उन्नति हो। उन्होंने सभी कर्मचारियों को जिम्मेदारी व अनुशासन की उपयोगिता भी बताई।



१४ सितम्बर - १३ अक्टूबर, २०१५

हिंदी चेतना मास

आईसीएआर-अटारी, कानपुर में हिंदी चेतना मास दिनांक १४ सितम्बर से १३ अक्टूबर तक मनाया गया। इस दौरान विभिन्न हिंदी प्रतियोगिता आयोजित कि गयी। विभिन्न प्रतियोगिता में प्रश्नोत्तरी, सुलेख, निबंध लेखन आयोजित किया गया। प्रतियोगिता में संस्थान के समस्त अधिकारी एवं कर्मचारी उत्साह से शामिल हुए। श्री एस.एन. येमुल, डॉ. अजीत कुमार श्रीवास्तवा, श्री श्रवण कुमार यादव एवं कु. कृतिका शर्मा को विभिन्न प्रतियोगिता में सफल घोषित करते हुए पुरस्कृत किया गया।

२६-३१ अक्टूबर, २०१५

सतर्कता जागरुकता सप्ताह

आईसीएआर-अटारी, कानपुर ने सतर्कता जागरुकता सप्ताह २६-३१ अक्टूबर, २०१५ के दरमियान मनाया गया। इस अवसर पर समस्त अधिकारी एवं कर्मचारियों ने संस्थान के निदेशक एवं आईसीएआर-आई.आई.पी.आर.के भूतपूर्व निदेशक के समक्ष शपथ ली।



अटारी के कर्मचारी हिंदी चेतना मास एवं सतर्कता जागरुकता सप्ताह मनाते हुए

Director's Desk



It gives me immense pleasure to put before you the maiden issue of institute magazine 'ICAR-ATARI, Kanpur'. I am pleased to inform that this institute has 81 KVKs spread over the two states namely Uttar Pradesh and Uttarakhand. Besides, site selection committee report have been submitted for one new KVK in Uttar Pradesh.

These KVKs are performing very well with significant achievements in the field of agriculture for sustainable development of the region.

During the first half of 2015-16 (From April, 2015 to Sept, 2015), KVKs have conducted 262 OFTs on various thematic areas. For implementing the technology at wider scale, total of 9392 FLDs were conducted on oilseeds, pulses, cereals, vegetables, cash crops, agro-forestry, millets and other important area covering the area of 3907.47 ha in ICAR-ATARI, Kanpur. FLDs on other income generating enterprises like poultry, goatry, duckery, farm machinery, vermi-compost and mushroom production were also conducted. For regular knowledge-updating and imparting new skills, total 2774 courses were organized benefiting 0.88 lakh farmers. For enhancing the production through quality seed and planting materials total 1066.70 tons seeds and 61.63 lakh units of planting materials were produced by the KVKs of ICAR-ATARI, Kanpur. A large number of extensions activities were organized by the KVKs; a total 5.95 lakh farmers were participated in different extension activities. Regarding soil & water sample testing, 13000 samples were tested by the KVKs.

I am also glad to inform you that this institute is implementing two research projects namely - Improving production efficiency through location specific farm mechanization : A diagnostic investigation and Developing the digitized information management system for the Krishi Vigyan Kendras (dKVK) of U.P. & Uttarakhand. Besides another research project on Value-chain analysis of agricultural commodities in Uttar Pradesh and Uttarakhand has been under approval for extra-mural funding by ICAR, Division of Agricultural Extension, New Delhi.

I feel proud that KVK Kushinagar under this zone conferred with the Best Zonal KVK Award for the year 2014 at National KVK Conference, Patna-2015 and Young Scientist Award to Dr. S.K. Dubey, Principal Scientist (AE), Appreciation Award to Dr. Atar Singh, Principals Scientist (Agron.), Convener of BHU Conference to myself, Co-organizing secretary of BHU to Dr. S.K. Dubey in ISSE Golden Jubilee National Seminar on Strategy to Drive Skill Based Agriculture Development; Forward for Sustainability and Rural Employability in November 5-7, 2015 at BHU Varanasi.

It is also important to mention here that this institute has developed Linkages and coordination with different line departments, research institutions and SAUs such as IIT, Kanpur; ICAR Research Institutes of U.P. and Uttarakhand, MANAGE Hyderabad, Nehru Yuva Kendra and SAUs of both the states for different purposes, activities and technological backstopping.

I heartily congratulate the scientists and staff of ICAR-ATARI, Kanpur and Heads of KVKs of this zone for their industrious efforts and initiatives taken for bringing out the first issue of the institute magazine. I wish all success in their endeavors in future also.

(U.S. Gautam)

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