



वार्षिक प्रगति प्रतिवेदन ANNUAL PROGRESS REPORT

2024



भाकृअनुप-कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान (अटारी), कानपुर
ICAR-AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH
INSTITUTE (ATARI), KANPUR

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EXECUTIVE SUMMARY

TRAINING PROGRAMMES	KVKs organized 9134 training courses with the participation of 220249 farmers, farm women, rural youths and extension functionaries. The farmers and farm women were represented in a proportion of 74.37 % and 25.62 % respectively. In all 176303 farmers and farm women and 21578 rural youths were provided skill training in different enterprises. Similarly, 22368 extension personnel were also trained in different areas. A total of 611 sponsored trainings with the participation of 30976 farmers and farm women and 348 vocational trainings with participation of 7628 rural youths were organised.
FRONTLINE DEMONSTRATIONS	A total of 32680 frontline demonstrations were organized out of which on CFLD pulses (6319) & oilseeds (9837), cereals & millets (8257), vegetables (3894) and fruits (223). Under FLD other than pulses and oilseeds total area covered was 4129.27 ha.
TECHNOLOGY ASSESSMENT	Total 1034 technologies were assessed and 4212 trials conducted under three categories namely, crop (3030), livestock (778) and other enterprises (404)
EXTENSION PROGRAMMES	In all 48,141 extension activities with 25.79 lakh beneficiaries, 56633 mass communication extension activities, 79811 mobile advisories through text and voice for 22.29 lakh farmers, 31723 soil samples covering 43666 farmers, 2571 technology week celebrations with 4.31 lakh beneficiaries, 53 trainings under rain water harvesting & micro irrigation system with 4993 beneficiaries have been reported.
SEED PRODUCTION	KVKs of Uttar Pradesh produced 22289.92 q seed of cereals (16866.73 q), pulses (1010.41 q), oilseeds (930.40 q), commercial crops (3049.53 q), fodder (192.70 q), vegetables (154.56 q) and spices (85.59 q).
PLANTING MATERIAL PRODUCTION	During the year 2024 KVKs produced 39.007 lakh planting materials including vegetable seedlings (27.83 lakh), fruit saplings (1.61 lakh), ornamental (2.64 lakh), fodder (6.17 lakh), medicinal and aromatic (0.19 lakh) and forestry (0.56 lakh).
BIO-PRODUCTS	The KVKs of Uttar Pradesh produced 2326.36 q of bio-products which include vermi compost (1560.44 q) and NADEP compost (371.00 q). Besides, KVKs also produced 96.95 q bio pesticides, 11.44 q bio-fungicide and 17.32 q other bio- products.
LIVESTOCK & FINGERLING PRODUCTION	KVKs of Uttar Pradesh produced 54.11 lakh livestock strains including 1189 dairy animals including cows, buffaloes, calves, goat etc by 22 KVKs; poultry (13070) including broilers, layers, duals, ducks etc by 22 KVKs and fisheries (53.97 lakh) by 9 KVKs. The amount of Rs 98.39 lakh was collected from the produce.

HRD AND PUBLICATIONS	A total of 27 publications including research papers (9), books (3), technical report (1), popular articles (5) and newsletters (4) have been published by ICAR-ATARI, Kanpur. KVKs of this zone also published a total of 41930 which includes books(80), bulletins(149), Newsletters(483), Training Manual(219), Book chapters(262), Research papers(256), Lead papers(74), Seminar papers(118), Extension folder(36304) and Proceedings(113) etc. In the period under report, this institute also organised Workshop/HRD (5) and participation in 141 different kind of meetings by hybrid and virtual mode.
WOMEN EMPOWERMENT IN AGRICULTURE	A range of courses (855) related to women empowerment were organized with the participation of 15959 farm women. Value addition (135) attended by highest number of farm women (2777) followed by Household food security by kitchen gardening and nutritional gardening courses (148) were attended by farm women (2738), women and child care (82) attended by (1475) farm women, etc. The farm women also showed interest in courses like storage losses, gender mainstreaming through SHGs, processing & cooking, rural craft, developing high nutrient efficient diet, drudgery reduction, diet related courses, etc. were also conducted
INFRASTRUCTURE FACILITIES	Most of KVKs are having their own infrastructure facilities, in Uttar Pradesh availability of infrastructure are Administrative Building (68), Farmers Hostel (59), Staff Quarters (59), Soil Testing Labs (44), Soil Testing Kits (104), IFS (26), Demo Units funded by ICAR (240), Demo Units funded by others (61), e-connectivity (26), Technology Information Unit (23) and Four wheeler (87), Two wheeler (70), Tractor (81).
STAFF POSITION	ICAR-ATARI, Kanpur have filled up 12 staff personnel out of total 20 vacancies. Post of RMP is filled. Out of 6 sanctioned positions in scientific cadre, 3 positions (2 Sr. Scientist and 1 Scientist) are filled up. 1 Principal Scientist, 1 Sr. Scientist and 1 Scientist positions are lying vacant. Out of 9 positions in administrative cadre, 5 are filled up and 4 positions (PS-1, Assistant-1, LDC-1, Steno-1) are lying vacant. 1 Skilled Support Staff is filled and 1 post is vacant. Out of total sanctioned post (1424), KVKs have filled 969 posts including Head (62), Subject Matter Specialists (411), Programme Asstt. (144), Administrative (116), Auxiliary (126), Supporting (110). Filled positions are 68.12 % and vacant post lying as 31.88 %.
STATUS OF BUDGET	During the financial year 2023-24, an amount of Rs. 15343.91 lakh was utilized/released against the allotted budget of Rs. 15344.01 lakh.

Chapter-1

INTRODUCTION & ACHIEVEMENTS AT A GLANCE**1.1 INTRODUCTION**

The Indian Council of Agricultural Research (ICAR) is an autonomous organisation under the Department of Agricultural Research & Education (DARE), Ministry of Agriculture and Farmers Welfare, Government of India. Agricultural Extension Division is one of the Subject Matter Divisions where the major activities are of Assessment and Demonstration of Technology/Products through a network of 731 Krishi Vigyan Kendras (KVKs) in the country.

ICAR-Agricultural Technology Application Research Institute (ATARI), Kanpur is one of the 11 ICAR-ATARIs formerly known as Zonal Project Directorates (ZPDs) and the erstwhile Zonal Coordination Unit (ZCU) functioning under Division of Agricultural Extension established in the year 1979. ICAR has established a vast network of KVKs all over the country under the administrative control of various ICAR institutes, State Agricultural Universities (SAUs), State Department of Agriculture, Non-Governmental Organisations (NGOs) and other institutes for implementing the central governmental projects/schemes. In the Zone, 3 Agricultural Technology Information Centres (ATICs) are working for delivering the “Single Window” delivery system. Since, Zonal Project Directorate has been elevated as ICAR-Agricultural Technology Application Research Institute (ATARI), in the year 2015, the element of researches in frontline extension system was added as one of its core activities.

The major functions of the ICAR-ATARI, Kanpur are:

- 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-III, 89 KVKs have been established by the ICAR in Uttar Pradesh across 75 districts. There are 15 districts of state where two KVKs are established.

The mandate of KVK is – Technology Assessment and Demonstration for its Application and Capacity Development (TADA-CD).

Besides, KVKs also act to

- Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.
- Produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programmes within the mandate of KVK.

Projects and Special programmes

This institute is handling 13 different projects and special programmes. These project/special programmes are being funded by ICAR, and Government of India and Institute funded projects. A brief details of KVKs under different host Institutions are given in Table 1.2 and 1.3.

1.2 KVKs AT A GLANCE

Table 1.2: KVKs in Uttar Pradesh at a Glance

No. of Districts in U.P.	No. of KVKs under				Total KVKs
	SAU	ICAR	NGO	Other (Educational)	
75	67	7	12	3	89

Table 1.3: Host institution wise KVKs with their establishment year

S.N.	Name of the KVK	Year of establishment	S.No.	Name of the KVK	Year of establishment
NDUA&T, Faizabad (25)					
1	Bahraich	1983	14	Chandauli	2005
2	Ballia	1989	15	Jaunpur-I	2005
3	Basti	1984	16	SantKabir Nagar	2009
4	Mau	1989	17	Ambedkar Nagar	2010
5	Varanasi	1989	18	Amethi	2018
6	Siddharthnagar	1992	19	Bahraich-II	2018
7	Faizabad	2004	20	Gonda-II	2018
8	Gorakhpur	2004	21	Sultanpur-II	2018
9	Maharajganj	2004	22	Jaunpur-II	2018
10	Sonbhadra	2004	23	Ghazipur-II	2018
11	Azamgarh-I	2004	24	Shravasti	2020
12	Barabanki	2004	25	Azamgarh-II	2021
13	Balrampur	2005			
CSAUA&T, Kanpur (15)					
26	Raebareli	1984	33	Firozabad	2004
27	Fatehpur	1989	34	Lakhimpur Kheri	2005
28	Aligarh	1992	35	Farrukhabad	2005
29	Kannauj	2004	36	Hardoi-I	2005
30	Etawah	2004	37	Mahamaya Nagar	2009
31	Mainpuri	2004	38	Kasganj	2018
32	Kanpur Dehat	2004	39	Auraiya	2007
			40	Raebareli-II	2021
BUAT, Banda (7)					
41	Jhansi	1984	45	Lalitpur	2005
42	Mahoba	2004	46	Banda	2007
43	Hamirpur	2005	47	Prayagraj-II	2021
44	Jalaun	2005			
SVPUA&T, Meerut (20)					
48	Bijnor	1992	58	Moradabad-I	2005
49	Rampur	1992	59	Gautam Budha Nagar	2005
50	Badaun-I	1992	60	Bulandshahar	2004
51	Saharanpur	1992	61	Badaun-II	2018
52	Ghaziabad	1992	62	Sambhal	2018
53	Sahajahanpur	1994	63	Shamli	2018

54	Meerut	1994	64	Amroha	2018
55	Muzaffarnagar-I	1994	65	Hapur	2018
56	Pilibhit	1998	66	Muzaffarnagar-II	2019
57	Baghpat	2004	67	Moradabad-II	2020
ICAR KVKs (7)					
Indian Veterinary Research Institute, Bareilly					
68	Bareilly	1985			
Indian Institute of Sugarcane Research, Lucknow					
69	Lucknow	1994	70	Lakhimpur Kheri-II	2019
Indian Institute of Vegetables Research, Varanasi					
71	Kushinagar	2005	73	St. Ravidas Nagar	2008
72	Deoria	2009			
ICAR-Central Soil Salinity Research Institute, Karnal					
74	Hardoi-II	2018			
NGO KVKs (12)					
Kamla Nehru Memorial Trust, Sultanpur					
75	Sultanpur	1976			
RBS College, Agra					
76	Etah	1982	77	Agra	2002
Deendayal Research Institute, Gonda					
78	Gonda-I	1989	79	Chitrakoot	1992
Raja Avadesh Singh Memorial Society, Pratapgarh					
80	Pratapgarh	1999			
Kunwar Ram Bux Singh Educational Society, Lucknow					
81	Unnao	1999			
Post Graduate College, Gazipur					
82	Gazipur	2002			
Manav Vikas Evam Seva Sansthan, Lucknow					
83	Sitapur-I	2005			
Dr.Bhimrao Ambedkar Welfare Society, Allahabad					
84	Kaushambi	2006			
Ranvir Rananjay Degree College Association, Amethi					
85	Sitapur-II	2011			
Guru Gorakshnath Sewa Sansthan					
86	Gorakhpur-II	2016			
Educational KVKs (3)					
U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwa Vidyalaya Evam Go Anusandhan Sansthan, Mathura					
87	Mathura	1984			
SHUATS, Allahabad					
88	Allahabad	1992			
BHU, Varanasi					
89	Mirzapur	1984			

Table 1.4: Additional KVKs Established in the Districts

Sl. No.	Districts in UP	Number of KVKs Established in the Districts	Additional KVKs Established in the Districts
1.	Bahraich	Bahraich-I	Bahraich-II
2.	Ballia	Ballia	
3.	Basti	Basti	
4.	Mau	Mau	
5.	Varanasi	Varanasi	
6.	Siddharthnagar	Siddharthnagar	Gorakhpur-II
7.	Faizabad	Faizabad	
8.	Gorakhpur	Gorakhpur-I	
9.	Maharajganj	Maharajganj	
10.	Sonbhadra	Sonbhadra	
11.	Azamgarh	Azamgarh-I	Azamgarh-II
12.	Barabanki	Barabanki	
13.	Balrampur	Balrampur	
14.	Chandauli	Chandauli	
15.	Jaunpur	Jaunpur-I	
16.	SantKabir Nagar	SantKabir Nagar	Jaunpur-II
17.	Ambedkar Nagar	Ambedkar Nagar	
18.	Amethi	Amethi	
19.	Gonda	Gonda-I	
20.	Sultanpur	Sultanpur-I	
21.	Ghazipur	Ghazipur-I	Gonda-II Sultanpur-II Ghazipur-II
22.	Shravasti	Shravasti	
23.	Raebareli	Raebareli-I	
24.	Fatehpur	Fatehpur	
25.	Aligarh	Aligarh	
26.	Kannauj	Kannauj	Raebareli-II
27.	Etawah	Etawah	
28.	Mainpuri	Mainpuri	
29.	Kanpur Dehat	Kanpur Dehat	
30.	Firozabad	Firozabad	
31.	Lakhimpur Kheri	LakhimpurKheri-I	LakhimpurKheri-II
32.	Farrukhabad	Farrukhabad	
33.	Hardoi	Hardoi-I	
34.	Mahamaya Nagar	Mahamaya Nagar	
35.	Kasganj	Kasganj	
36.	Auraiya	Auraiya	Hardoi-II
37.	Jhansi	Jhansi	
38.	Mahoba	Mahoba	
39.	Hamirpur	Hamirpur	
40.	Jalaun	Jalaun	
41.	Lalitpur	Lalitpur	Prayagraj-II
42.	Banda	Banda	
43.	Prayagraj	Prayagraj-I	
44.	Bijnor	Bijnor	
45.	Rampur	Rampur	
46.	Badaun	Badaun-I	Badaun-II
47.	Saharanpur	Saharanpur	

48.	Ghaziabad	Ghaziabad	
49.	Sahajahanpur	Sahajahanpur	
50.	Meerut	Meerut	
51.	Muzaffarnagar	Muzaffarnagar-I	Muzaffarnagar-II
52.	Pilibhit	Pilibhit	
53.	Baghpat	Baghpat	
54.	Moradabad	Moradabad-I	Moradabad-II
55.	Gautam Budha Nagar	Gautam Budha Nagar	
56.	Bulandshahar	Bulandshahar	
57.	Sambhal	Sambhal	
58.	Shamli	Shamli	
59.	Amroha	Amroha	
60.	Hapur	Hapur	
61.	Bareilly	Bareilly	
62.	Lucknow	Lucknow	
63.	Kushinagar	Kushinagar	
64.	Deoria	Deoria	
65.	Bhadohi (St. Ravidas Nagar)	Bhadohi (St. Ravidas Nagar)	
66.	Etah	Etah	
67.	Agra	Agra	
68.	Chitrakoot	Chitrakoot	
69.	Pratapgarh	Pratapgarh	
70.	Unnao	Unnao	
71.	Sitapur	Sitapur-I	Sitapur-II
72.	Kaushambi	Kaushambi	
73.	Mathura	Mathura	
74.	Mirzapur	Mirzapur	
75.	Kanpur Nagar	No KVK	

1.3 AGRO-CLIMATIC ZONES

Uttar Pradesh is divided into 9 agro climatic zones (1. Bhabhar and Tarai 2. Western Plain 3. Mid Western Plain 4. South Western Semi Arid 5. Central Plain 6. Bundelkhand 7. North Eastern Plain 8. Eastern Plain and 9. Vindhyan Zone), depicted as in figure 1.



Distribution of 89 KVKs in U.P.	
SAU KVKs	67
ICAR KVKs	07
NGO KVKs	12
Educational KVKs	03
Total	89

Note: Districts (15) with two KVKs : Azamgarh, Gonda, Bahraich, Sultanpur, Jaunpur, Ghazipur, Budaun, Moradabad, Muzaffarnagar, Lakhimpur Kheri, Hardoi, Sitapur, Gorakhpur, Prayagraj, Raebareli

1.4 ACHIEVEMENTS AT A GLANCE DURING 2024

1.4.1 Achievements of Technical Programmes at a glance

1.	Training programmes	Courses	Participants
	• Farmers & farm women	7152	176303
	• Rural Youths	998	21578
	• Extension Functionaries	984	22368
	Total	9134	220249
	• Sponsored Training programmes	611	30976
	• Vocational Training programmes	348	7628
2.	Frontline Demonstrations	Farmers	Area (ha)/Units (No.)
	• Pulses	6319	2549.23
	• Oilseeds	9837	3679.00
	• Cereals & millets	8257	3773.87
	• Vegetables	3894	287.30
	• Fruits	223	68.10
	Grand Total	28830	10357.50
3.	Technology Assessment	Technologies	Trials
	• Crops	813	3030
	• Livestock	167	778
	• Other Enterprises	54	404
	Total	1034	4212
4.	Extension Programmes	Number	Beneficiaries
	• Extension activities	48,141	25,79,006
	• Other extension programs(mass comm.)	56,633	mass
	• Mobile advisories	79,811	22,29,105
	• Soil samples	31723	43666
	• Technology week celebrations	2571	431000
	• RWHS	53	4993
	Total	908719	3710557
5.	Seed Production (quintal)	22312.17	21422
6.	Planting materials (lakh)	39.00	39589
7.	Bio-Production (quintal)	2326.37	571
8.	Livestock strains	Quantity (lakh)	Beneficiaries
	• Livestock	0.14	993
	• Fisheries	53.97	773
	Total	54.11	1766
9.	Publications (No.)	By KVKs	By ATARI
		41930	27
10.	HRD/meetings Programmes	By ATARI	
	• No. of Programmes	109	

1.4.2 Special Programmes at a glance

S.No.	Programme Name & no. of KVKs/ICAR Institutes/SAUs	Achievements
1.	NICRA (National Innovation on Climate Resilient Agriculture) (13 KVKs)	- Demonstrations on various modules: 44327 covering 1516.34 ha area. - Training courses: 156 and 4206 farmers benefitted - Extension activities: 209 and 7507 farmers benefitted
2.	ARYA (Attracting & Retaining of Youth in Agriculture) (10 KVKs)	- Training programmes: 30 courses with 676 participants - Entrepreneurial Units established: 358
3.	IFS (Integrated Farming System) (13 KVKs)	- Total IFS units established: 53 with 45.45 ha area covered - Total 46 demonstrations and 94 trainings were conducted for 1540
4.	STC (Scheduled Tribe Component)/ KSHAMTA (Knowledge Systems and Homestead Agricultural Management in Tribal Areas) (8 KVKs)	- Training programmes: 120 courses with 3570 participants - OFT: 17, FLD : 3517 - Mobile agro – advisories provided: 1576 - Participation in extension activities: 2654 - Seed Production: 45.00 q, livestock/fingerlings: 18.80 lakh - Soil Testing: 187
5.	SCSP (Scheduled Caste Sub Plan) (10 KVKs)	- Training programmes: 765 courses with 18702 participants - On farm Trials: 537, FLD : 5289 - Mobile agro – advisories provided: 47813 - Participation in extension activities: 9688 - Seed production: 253.35 q, planting material production: 0.40 lakh, Soil Testing: 4282
6.	Farmer FIRST Programme (7 ICAR institutes)	- Total demonstrations: 4920 covering 3679 families - Total 1960 extension activities by benefitting 6406 Farmers
7.	CRM (Crop Residue Management) (23 KVKs)	- Total 107 awareness camps conducted and 10675 farmers were benefitted - Total 33 training programmes organized and 979 farmers were benefitted - Total 2569 demonstrations conducted covering an area of 1753.7 ha - Schools and colleges students mobilized through essay competition, painting, debate etc. and 65 activities conducted by participation of 10079 students - Total 10 Kisan melas organized and 3981 farmers are benefitted - Total 363 column/ articles published in newspaper and magazines 102 hoarding fixed at mandi/ roadside/ market/ schools/ petrol pump/ panchayat etc., 1645 posters/ banners placed at different location/ buses etc. - Total 112667 publicity material such as leaflets/ pamphlets etc. distributed - Total 123 made awareness through TV and radio 30 exposure visits conducted by benefitting 1666 farmers - Total 18 field days organized by participating 1191 farmers

		Total 83 advertisement published in print media
8.	DAMU (Distt. Agrometeorology Unit) (20 KVKs)	- No. of Ago. Advisory services (AAS): 2901 - No. of Farmer Awareness Programs (FAP) : 61 - No. of Trainings : 27 - No. of Bulletins : 1080 - No. of Whatsapp Messages: 6987 - Diagnostic Field visit : 98 - Radio & TV Talk: 25 - No. of Articles/News published in newspapers: 180
9.	Pulses Seed Hub (8 KVKs)	Total 327.57 quintal pulse seeds (black gram 5.25 q, green gram 69.56 q, chickpea 143.00 q, field pea 29.00 q, lentil 54.20 q and Pigeon pea 26.56)
10.	ASCI (Agriculture Skill Council of India)	Training courses organised: 34 courses with 280 participants (each course has 200 hour duration)
12.	NARI (Nutrition-Sensitive Agricultural Resources and Innovation) (89 KVKs)	- Trainings (courses: 297, Participants: 7436) - Extension programmes (Number 238, Participants: 7436) - Nutritional Garden units established: 1430 and 2328 farmer benefitted - Bio-fortified crops: 101 and 1218 farmers benefitted - Value addition: 101 and 1642 farmers were benefitted.
13.	Natural farming (52 KVKs)	- No. of awareness programme: 245 with 21482 participants - No. of training programmes organized: 43 with 1874 participants - No. of demonstrations organized at farms of KVKs: 395 with 768 farmers
14.	CSISA project (Cereal System Initiative for South Asia)	275 farmers benefitted through 47 activity conducted on 4 different programme plantation paddy up pulling & DSR (21 & 21), Training (5 & 125) and Kisan Mela (2 & 150).
15.	MGMG (Mera Gaon Mera Gaurav) (13 ICAR institutes & DU)	- Total no. of groups or team formed-62 - Number of Scientists involved-275 - Number of village's covered-345 - Number of field activities conducted 301 - Number of messages / Advisory sent-502 - Number of Farmers benefitted -2825
16.	RWHS (Rainwater Harvesting Structures) (35 KVKs)	- Training programmes : 25 - Demonstrations: 12 - Visits: 18300 farmers and 145 officials.
17.	SBA (Swachha Bharat Abhiyaan) (All 89 KVKs)	Programmes organised: 3896 with 42302 participants
18.	Agril. Drone (10 KVKs, 4 SAUs and 11 ICAR institutes)	- Area (ha) and its demonstrations by kisan drone : 1500 ha, - No. of farmers participated : 6500.
19.	CFLD (Cluster frontline demonstrations) on Pulses & Oilseeds (89 KVKs)	- Total 2549.23 ha area and 6319 demonstrations were covered under CFLD on Pulses - Total 3679.00 ha area and 9837 demonstrations were covered under CFLD on Oilseeds

1.5 LINKAGES AND COORDINATION

1. SAUs (SVPUAT, CSAUAT, ANDUAT & BUAT) have been assigned to organise of technological backstopping to KVKs of Uttar Pradesh on regular interval.
2. Linkage with MANAGE Hyderabad for Agri-business & Agri Clinic Scheme & also knowledge up gradation of KVK staff in ICT and Natural Farming.
3. Interface on KVK-ATMA is held at State level with Principal Secretary Agriculture & Director Agriculture for development of effective linkage.
4. IIVR, Varanasi for providing suitable technologies like improved varieties and packages for vegetable production.
5. Linkage with CRIDA, Hyderabad for promoting climate resilient technologies in 13 districts of U.P.
6. Fodder development programme is being implemented in collaboration with IGFRI, Jhansi.
7. Linkage with National Rain fed Area Authority for development of various models including watershed of Bundelkhand region.
8. Senior level interactions and meetings organized with line department officials for fruitful convergence & close linkage.
9. Multi-emphasis is given Public-Private-Peasant-Policy Partnership.

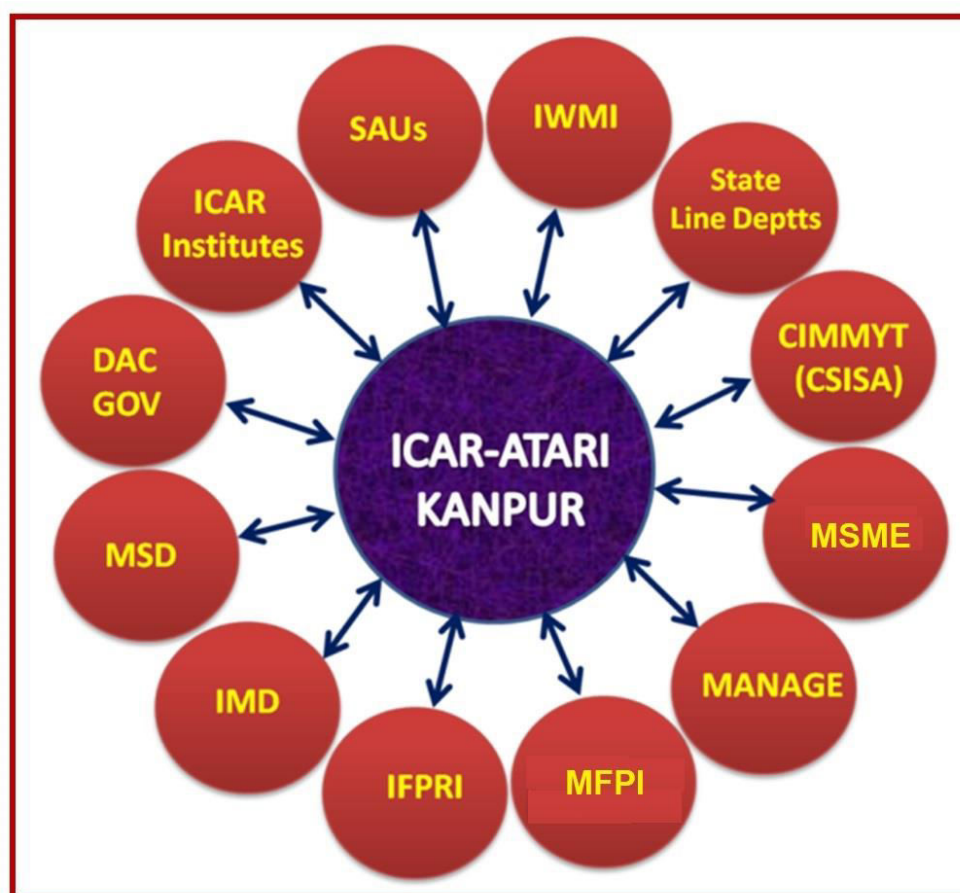


Fig-1 : Linkages of ICAR-ATARI, Kanpur with different organizations/Institutes

Chapter-2

TRAINING PROGRAMMES

KVKs organized 9134 training courses with the participation of 220249 farmers, farm women, rural youths and extension functionaries. The farmers and farm women were represented in a proportion of 74.37 % and 25.62 % respectively. In all 176303 farmers and farm women and 21578 rural youths were provided skill training in different enterprises. Similarly, 22368 extension personnel were also trained in different areas.

A total of 611 sponsored trainings with the participation of 30976 farmers and farm women and 348 vocational trainings with participation of 7628 rural youths were organised. Details of ON and OFF campus trainings of each clientele are given in Table-2.3.

Table-2.1 Physical achievement of Training Programme at a glance

Clientele	Courses	Male	Female	Total
Farmers & Farm women	7152	131122	45181	176303
Rural Youths	998	15858	5720	21578
Extension Functionaries	984	16934	5434	22368
Total	9134	163914	56335	220249

Table-2.2: Sponsored and vocational trainings conducted at a glance

Type of training	Courses	Male	Female	Total
Sponsored Trainings	611	25258	5718	30976
Vocational Trainings	348	5591	2037	7628
Total	959	30849	7755	38604

Table-2.3 Clientele wise ON/OFF Campus training programmes

Clientele	Type of Campus	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers & Farm Women	ON	3058	40139	10541	50680	16076	7516	23592	56215	18057	74272
	OFF	4094	55119	15391	70510	19788	11733	31521	74907	27124	102031
	Total	7152	95258	25932	121190	35864	19249	55113	131122	45181	176303
Rural Youths	ON	745	8760	2397	11157	2773	1604	4377	11533	4001	15534
	OFF	253	2757	711	3468	1568	1008	2576	4325	1719	6044
	Total	998	11517	3108	14625	4341	2612	6953	15858	5720	21578
Extension Functionaries	ON	615	8745	2573	11318	1954	1013	2967	10699	3586	14285
	OFF	369	5221	1243	6464	1014	605	1619	6235	1848	8083
	Total	984	13966	3816	17782	2968	1618	4586	16934	5434	22368
Grand Total	ON	4418	57644	15511	73155	20803	10133	30936	78447	25644	104091
	OFF	4716	63097	17345	80442	22370	13346	35716	85467	30691	116158
	Total	9134	120741	32856	153597	43173	23479	66652	163914	56335	220249

2.1 FARMERS AND FARM WOMEN

Under trainings for farmers and farm women category, total of 7152 courses were conducted by KVKs of the Uttar Pradesh with the participation of 176303 farmers and farm women (Table 2.4). Maximum courses (1406) and participants (176303) were related to crop production. The other areas of trainings were horticulture (1224 courses and 29949 participants); livestock production management (852 courses and 20430 participants); women empowerment (855 courses and 19515 participants); soil health and fertility management (719 courses and 18920 participants); agricultural engineering (263 courses and 6302 participants); plant protection (732 courses and 17519 participants); fisheries (230 courses and 6247 participants); production of input at site (293 courses and 7481 participants); capacity building & group dynamics (416 courses and 10480 participants); agro forestry (162 courses and 4069 participants).

Table-2.4 Training of farmers and farm women

Area of training	Courses	Male	Female	Total
Crop Production	1406	29752	5639	35391
Horticulture	1224	24859	5090	29949
Soil Health & Fertility Management	719	15128	3792	18920
Livestock Production & Management	852	15889	4541	20430
Home Science/ Women empowerment	855	3556	15959	19515
Agril. Engineering	263	4904	1398	6302
Plant Protection	732	14592	2927	17519
Fisheries	230	4901	1346	6247
Production of Input at site	293	6126	1355	7481
Capacity Building & Group Dynamics	416	8105	2375	10480
Agro forestry	162	3310	759	4069
Total	7152	131122	45181	176303

2.1.1 Crop Production

With respect to crop production, **1406** training courses were organized in Uttar Pradesh with the participation of **35391** farmers and farm women. Integrated crop management related 208 courses were organized in which 5009 farmers and farm women participated; followed by 191 courses on weed management (4427 participants), 169 on seed production (3895 participants), 100 courses on Integrated nutrient Management (2956 participants). The other important areas like cropping systems, crop diversification, integrated farming, integrated nutrient management, nursery management, production of organic inputs, etc. were also taken up.

Table 2.5: Training programmes related to crop production

Area of training	Courses	Male	Female	Total
Weed Management	191	3622	805	4427
RCT	128	2484	666	3150
Cropping Systems	116	2512	336	2848
Crop Diversification	101	2180	220	2400
Integrated Farming	70	1410	288	1698
Micro irrigation/irrigation	39	777	203	980
Seed production	169	3160	735	3895
Nursery management	83	1729	348	2077

Integrated Crop Management	208	4430	579	5009
Soil & water conservation	44	995	145	1140
Integrated nutrient Management	100	2591	365	2956
Production of organic inputs	65	1334	423	1757
Others	92	2528	526	3054
Total	1406	29752	5639	35391

2.1.2 Horticulture

Training on production technologies of vegetables, fruits, ornamental plants, plantation crops, tuber crops, spices and medicinal plants were organized. 633 courses on vegetables involving 15371 and 347 courses on fruit with the participation of 8783 were held. Similarly, in case of ornamental plants, organization of 102 courses with participation of 2534 persons was ensured. In the area of plantation crops, tuber crops, spices, medicinal & aromatic plants 25, 38, 45 and 34 courses were organized with participation of 676, 850, 979 and 756 farmers and farm women.

Table 2.6: Training on horticulture including sponsored training

Area of Training	Courses	Male	Female	Total
a) Vegetable Crops				
Production of low volume & high value crops	183	3570	768	4338
Off-season vegetables	78	1593	380	1973
Nursery raising	146	2806	670	3476
Exotic vegetables	34	700	195	895
Export potential vegetables	34	661	120	781
Grading and standardization	33	781	189	970
Protective cultivation	67	1218	217	1435
Others	58	1154	349	1503
Total (a)	633	12483	2888	15371
b) Fruits				
Training and Pruning	40	736	202	938
Layout and Management of Orchards	67	1745	440	2185
Cultivation of Fruit	79	1550	297	1847
Management of young plants/orchards	49	925	135	1060
Rejuvenation of old orchards	42	838	152	990
Export potential fruits	10	217	42	259
Micro irrigation systems of orchards	26	533	104	637
Plant propagation techniques	25	583	74	657
Others	9	186	24	210
Total (b)	347	7313	1470	8783
c) Ornamental Plants				
Nursery Management	32	650	157	807
Management of potted plants	16	357	67	424
Export potential of ornamental plants	20	425	42	467
Propagation techniques of ornamental Plants	18	437	43	480
Others	16	327	29	356
Total (c)	102	2196	338	2534

d) Plantation crops				
Production and Management technology	16	343	99	442
Processing and value addition	8	174	40	214
Others	1	20	0	20
Total (d)	25	537	139	676
e) Tuber crops				
Production and Management technology	31	627	76	703
Processing and value addition	4	95	6	101
Others	3	39	7	46
Total (e)	38	761	89	850
f) Spices				
Production and Management technology	31	605	78	683
Processing and value addition	8	147	18	165
Others	6	126	5	131
Total (f)	45	878	101	979
g) Medicinal and Aromatic Plants				
Nursery management	12	261	14	275
Production and management technology	11	224	24	248
Post harvest technology & value addition	6	128	6	134
Others	5	78	21	99
Total (g)	34	691	65	756
GT (a-g)	1224	24859	5090	29949

2.1.3 Soil Health and Fertility Management

Total of 719 courses were attended by 18920 participants. The courses in the area of soil fertility management (105), integrated nutrient management (137), soil & water testing (92), production & use of organic inputs (78), balanced use of fertilizer (62) and micro-nutrients deficiency in crops (56), nutrient use efficiency (44), etc. were organized with the objectives to create awareness, knowledge and skill among farmers to address various issues. These trainings involved 2553, 3197, 2797, 2093, 1766, 1342 and 1253 participants respectively were benefitted.

Table 2.7: Training on soil health and fertility management

Area of training	Courses	Male	Female	Total
Soil fertility management	105	2020	533	2553
Integrated water management	62	1417	419	1836
Integrated nutrient management	137	2672	525	3197
Production and use of organic inputs	78	1653	440	2093
Management of problematic soils	47	858	228	1086
Micro nutrient deficiency in crops	56	1085	257	1342
Nutrient use efficiency	44	955	298	1253
Balance use of fertilizer	62	1395	371	1766
Soil & water testing	92	2200	597	2797
others	36	873	124	997
Total	719	15128	3792	18920

2.1.4 Livestock Production Management

All together 852 courses were organized with the participation of 20430 participants. The courses related to disease management (174) were organized with the participation of 4144 cattle owners. Dairy management (187) was second preferred programme attended by 4439 participants. Feed and fodder management, animal nutrition, poultry, quality animal products, etc were other priority areas.

Table 2.8: Training on livestock production and management

Area of training	Courses	Male	Female	Total
Dairy Management	187	3448	991	4439
Poultry Management	116	2060	770	2830
Piggery Management	29	601	163	764
Rabbit Management	9	117	82	199
Animal Nutrition Management	96	1825	488	2313
Disease Management	174	3291	853	4144
Feed & fodder technology	126	2501	573	3074
Production of quality animal products	58	1070	232	1302
Others	57	976	389	1365
Total	852	15889	4541	20430

2.1.5 Women Empowerment

A range of courses (855) related to women empowerment were organized with the participation of 19515 farm women. Value addition (135) attended by highest of 3121 participants followed by Household food security by kitchen gardening courses (148) were attended by farm women (3612), followed by courses on, women and child care (82) attended by 1840 farm women, etc. The farm women also showed interest in courses like storage losses, gender mainstreaming through SHGs, processing & cooking, rural craft, developing high nutrient efficient diet, drudgery reduction, diet related courses, etc. were also conducted.

Table-2.9: Training on Women Empowerment

Areas of training	Courses	Male	Female	Total
Round the year by kitchen gardening	148	874	2738	3612
Design & development of low/minimum cost diet	61	367	1022	1389
Development of high nutrient efficiency diet	73	242	1406	1648
Minimization of nutrient loss in processing of fruits	55	416	780	1196
Processing & cooking of cereals and pulses	36	65	676	741
Gender mainstreaming through SHGs	39	159	711	870
Storage loss minimization techniques	50	181	925	1106
Value addition in fruits	135	344	2777	3121
Women empowerment through skill development	62	134	1329	1463
Location specific drudgery reduction technologies	39	99	777	876
Rural crafts	25	45	449	494
Women and child care	82	365	1475	1840
Others	50	265	894	1159
Total	855	3556	15959	19515

2.1.6 Agricultural Engineering

Total of 263 courses in various aspects related to farm machinery, implements and its maintenance, post harvest and value addition were organized by KVKs, benefiting 6302 farmers and farm women. Maximum courses on repair & maintenance of farm machinery & implements (69) were organized benefiting 1502 persons. Newer areas like installation and maintenance of micro irrigation system, use of plastics, small tools, etc. were also taken up in training programmes.

Table-2.10: Training on agricultural engineering

Areas of training	Courses	Male	Female	Total
Farm machinery & its maintenance	67	1254	170	1424
Installation and maintenance of micro irrigation systems	29	411	240	651
Use of plastics as mulch in farming practices	18	306	128	434
Manufacturing of small tools & implements	12	168	103	271
Repair & maintenance of farm machinery & implements	69	1011	491	1502
Small scale processing & value addition	12	541	80	621
Post harvest technology	19	368	90	458
Others	37	845	96	941
Total	263	4904	1398	6302

2.1.7 Plant Protection

Under Plant Protection total 732 courses were organized with the participation of 17519 persons. The highlights of these programmes and others each course were on IPM (309), IDM (180), bio control of pests and diseases (93), production of bio control agents & bio pesticides (67).

Table-2.11: Training on plant protection

Areas of training	Courses	Male	Female	Total
Integrated Pest Management	309	6307	1036	7343
Integrated Disease Management	180	3623	617	4240
Bio-control of pests and diseases	93	1640	599	2239
Production of bio control agents & bio pesticides	67	1320	272	1592
Others	83	1702	403	2105
Total	732	14592	2927	17519

2.1.8 Fish Production

The courses on integrated fish farming (35) and composite fish culture (45) were mainly organized with the participation of 1003 and 1140 persons respectively. Overall 230 courses attracted participation of 6247 persons.

Table-2.12: Training on fish production

Areas of training	Courses	Male	Female	Total
Integrated fish farming	35	714	289	1003
Carp breeding and hatchery management	46	1006	162	1168
Carp fry and fingerling rearing	14	353	50	403
Composite fish culture	45	859	281	1140

Hatchery management and culture of freshwater prawn	7	189	43	232
Breeding and culture of ornamental fishes	12	278	139	417
Portable plastic carp hatchery	20	471	66	537
Pen culture of fish and prawn	9	190	24	214
Shrimp farming	3	84	24	108
Edible oyster farming	7	127	64	191
Pearl culture	5	90	28	118
Fish processing and value addition	17	337	120	457
Others	10	203	56	259
Total	230	4901	1346	6247

2.1.9 Production of inputs at site

Total 293 courses on this theme attracted participation of 7481 persons were organized. Seed production, vermi composting and organic manures attracted maximum participation.

Table-2.13: Training on production of input

Areas of training	Courses	Male	Female	Total
Seed Production	74	1436	207	1643
Planting material production	21	467	74	541
Bio-agents production	5	109	22	131
Bio-pesticides production	12	332	41	373
Bio-fertilizer production	17	372	126	498
Vermi-compost production	36	761	180	941
Organic manures production	25	483	116	599
Production of Bee-colonies and wax sheets	6	101	41	142
Small tools and implements	7	194	79	273
Production of livestock feed and fodder	12	292	74	366
Production of Fish feed	21	452	63	515
Mushroom Production	27	539	198	737
Apiculture	12	249	87	336
Others	18	339	47	386
Total	293	6126	1355	7481

2.1.10 Capacity Building and Group Dynamics

416 courses were organized benefiting 10480 persons. The topics covered in the programmes included leadership development, group dynamics, SHGs, entrepreneurship development, WTO & IPR, etc.

Table-2.14: Training on capacity building and group dynamics

Areas of training	Courses	Male	Female	Total
Leadership development	65	1251	464	1715
Group dynamics	57	1098	258	1356
Formation and Management of SHGs	83	1393	625	2018
Mobilization of social capital	41	909	138	1047
Entrepreneurial development of farmers/youths	93	1854	638	2492
WTO and IPR issues	14	260	31	291
Others	63	1340	221	1561
Total	416	8105	2375	10480

2.1.11 Agro-forestry

In this area, 162 courses were organized benefiting 4069 farmers. The topics covered in the programmes included production technology, nursery management, integrated farming systems, etc.

Table 2.15: Training on agro-forestry

Areas of training	Courses	Male	Female	Total
Production technologies	64	1329	269	1598
Nursery management	37	819	231	1050
Integrated Farming Systems	32	600	167	767
Others	29	562	92	654
Total	162	3310	759	4069

2.2 TRAINING OF RURAL YOUTH

Total of 998 courses involving 21578 persons were conducted. The highest participation was attracted towards the programmes like seed production (88), mushroom production (97), value addition (46), training and pruning of orchards (16), nursery management of horticultural crops (136), vermi culture (32) and organic inputs production (50). Other courses viz protected cultivation, commercial fruit production, planting material production, bee keeping, rural crafts, dairying, poultry, etc were preferred by the youth. Similarly, livestock and fisheries, crop production and management and post harvest management related programmes were also organized.

Table-2.16 Training for Rural youth

Areas of training	Courses	Male	Female	Total
Nursery Management of Horticulture crops	136	2218	544	2762
Training and pruning of orchards	16	294	35	329
Protected cultivation of vegetable crops	30	656	122	778
Commercial fruit production	45	872	157	1029
Integrated farming	36	685	108	793
Seed production	88	1458	389	1847
Production of organic inputs	50	870	206	1076
Planting material production	13	216	94	310
Vermi-culture	32	433	145	578
Mushroom Production	97	1510	522	2032
Bee-keeping	56	993	157	1150
Sericulture	4	55	27	82
Repair and maintenance of farm machinery and implements	23	413	44	457
Value addition	46	262	684	946
Small scale processing	11	83	116	199
Post Harvest Technology	15	155	119	274
Tailoring and Stitching	19	23	335	358
Rural Crafts	24	47	432	479
Production of quality animal products	12	165	114	279
Dairying	46	790	224	1014

Sheep and goat rearing	62	1075	396	1471
Quail farming	3	71	29	100
Piggery	11	249	31	280
Rabbit farming	5	87	11	98
Poultry production	43	735	210	945
Composite fish culture	12	221	71	292
Freshwater prawn culture	1	17	3	20
Pearl culture	1	10	0	10
Cold water fisheries	1	20	0	20
Fish harvest and processing technology	4	107	56	163
Fry and fingerling rearing	6	145	3	148
Other	50	923	336	1259
TOTAL	998	15858	5720	21578

2.3 TRAINING OF EXTENSION PERSONNEL

Total of 984 courses involving **22368** extension personnel were organized in the by the KVKs of Uttar Pradesh. Major areas in which extension personnel were trained were productivity enhancement in field crops (217), integrated pest management (113), INM (86), production of organic inputs (56), livestock feed & fodder (48), women & child care (58) etc. Details are shown in Table 2.17.

Table-2.17 Training for extension personnel

Areas of training	Courses	Male	Female	Total
Productivity enhancement in field crops	217	4378	221	4599
Integrated Pest Management	113	2146	136	2282
Integrated Nutrient management	86	1848	222	2070
Rejuvenation of old orchards	27	559	60	619
Protected cultivation technology	45	953	148	1101
Production and use of organic inputs	56	1215	150	1365
Care & maintenance of farm machinery & implements	23	454	46	500
Gender mainstreaming through SHGs	20	166	227	393
Formation and Management of SHGs	26	309	255	564
Women and Child care	58	128	1012	1140
Low cost and nutrient efficient diet designing	37	150	681	831
Group Dynamics and farmers organization	6	50	84	134
Information networking among farmers	11	95	69	164
Capacity building for ICT application	20	404	47	451
Management in farm animals	51	1047	213	1260
Livestock feed and fodder production	48	1008	52	1060
Household food security	33	205	602	807
Other	107	1819	1209	3028
Total	984	16934	5434	22368

2.4 SPONSORED TRAINING PROGRAMMES

Under sponsored training programmes, total 611 courses were organised by involving 30976 participants. Details are shown in Table 2.18.

Table-2.18: Sponsored Training Programmes organised

Areas of training	Courses	Male	Female	Total
Increasing production and productivity of crops	148	7012	956	7968
Commercial production of vegetables	72	3394	397	3791
Production and value addition				
Fruit Plants	26	1152	148	1300
Ornamental plants	3	144	23	167
Spices crops	5	81	39	1467
Soil health and fertility management	53	2493	289	2782
Production of Inputs at site	15	557	162	719
Methods of protective cultivation	11	364	91	3501
Others	42	1466	244	1710
Total	375	16663	2349	19012
Post harvest technology and value addition				
Processing and value addition	12	305	250	555
Others	15	461	179	640
Total	27	766	429	1195
Farm machinery				
Farm machinery, tools and implements	53	2705	782	3487
Others	7	151	19	170
Total	60	2856	801	3657
Livestock and fisheries				
Livestock production and management	33	1596	419	2015
Animal Nutrition Management	16	916	124	1040
Animal Disease Management	11	453	50	3055
Fisheries Nutrition	1	73	9	82
Fisheries Management	14	368	96	464
Others	3	96	27	546
Total	78	3502	725	4227
Home Science				
Household nutritional security	7	43	217	260
Economic empowerment of women	4	7	97	104
Drudgery reduction of women	9	0	115	364
Others	6	129	238	367
Total	26	179	667	846
Agricultural Extension				
Capacity Building and Group Dynamics	20	709	208	917
Others	25	583	539	1122
Total	45	1292	747	2039
GRAND TOTAL	611	25258	5718	30976

2.5 VOCATIONAL TRAINING PROGRAMMES

Under vocational training programmes, total 348 courses were organised by involving 7628 participants. Details are shown in table 2.19.

Table-2.19 Vocational Training Programmes organised

Areas of training	Courses	Male	Female	Total
Crop production and management				
Commercial floriculture	5	87	11	98
Commercial fruit production	4	88	7	95
Commercial vegetable production	8	131	35	166
Integrated crop management	14	273	52	325
Organic farming	19	361	101	462
Others	16	248	80	328
Total	66	1188	286	1474
Post harvest technology and value addition				
Value addition	33	404	331	735
Others	6	29	98	127
Total	39	433	429	862
Livestock and fisheries				
Dairy farming	16	360	43	403
Composite fish culture	10	197	24	221
Sheep and goat rearing	24	544	89	633
Piggery	6	85	11	96
Poultry farming	10	176	52	228
Others	5	66	9	75
Total	71	1428	228	1656
Income generation activities				
Vermicomposting	28	438	197	635
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	5	98	35	133
Repair and maintenance of farm machinery and implements	5	79	30	109
Rural Crafts	4	73	17	90
Seed production	2	37	8	45
Sericulture	4	35	50	85
Mushroom cultivation	24	396	149	545
Nursery, grafting etc.	3	64	6	70
Tailoring, stitching, embroidery, dying etc.	28	499	139	638
Agri. para-workers, para-vet training	19	249	134	383
Others	2	13	27	40
Total	3	33	2	35
Agricultural Extension				
Capacity building and group dynamics	18	188	59	247
Others	6	75	35	110
Total	27	340	241	581
Grand Total	348	5591	2037	7628

TRAINING PROGRAMMES



RY training on bee keeping- KVK Hamirpur



Training on Krishi Sakhi (Natural farming):
KVK Aligarh



Off campus training for farmers: KVK Hathrus



Off campus training for farmers: KVK Kanpur Dehat



Off campus Training Programme : KVK Hamirpur



Training on Natural farming : KVK Jhansi



Training Programme on IPM: KVK Hamirpur



Training Programme CRM: KVK-I Raebareilly

TRAINING PROGRAMMES



Off campus training on millet: KVK Mathura



Natural Farming trg to RSETI trainees: KVK Badhoi



Training on Natural farming: KVK Badhoi



RY training on Nutri Diet Management: KVK Badhoi



Training on CRM: KVK Bareilly



Training on IPM: KVK Deoria



Training programme on seed production: KVK Hardoi

TRAINING PROGRAMMES



Vegetable Kit distribution for Nutritional Garden in Training under NARI, Programme: KVK Ambedkar Nagar



Off campus training vegetable nursery production unit: Lakhimpur Kheri-II



Off campus training on soil testing: KVK Agra



Off campus training on Dairy: KVK Agra



On campus training on millets for EF: KVK Gonda



Off campus training for farmers: KVK Kaushambi



Training on value addition: KVK Gonda

TRAINING PROGRAMMES



Off campus training for F&FW: KVK Sitapur-I



Training on Natural Farming: KVK Sitapur-II



Training on candle making: KVK Unnao



On campus Training on INM (Mango): KVK Unnao



Training on Nutrition: KVK Ghaziabad



PF Training on "Mastitis in animal, Its symptoms and control": KVK Sambhal



Rural Women Training-Shahjahanpur



Training for farm women: KVK Shamli

Chapter-3

FRONTLINE DEMONSTRATIONS

Frontline demonstration (FLD) is one of the important activities of KVKs. It shows the production potential of improved technologies to the farmers. KVKs play important role to showcase and promote the latest varieties and other technologies related to pulses, oilseeds, cereals, vegetables, fruits, etc. to enhance the production and productivity. A total of 32680 frontline demonstrations were organized out of which on CFLD pulses (6319) & oilseeds (9837), cereals & millets (8257), vegetables (3894) and fruits (223). Under FLD other than pulses and oilseeds total area covered was 4129.27 ha. Details are given in Table-3.1.

Table 3.1 : Physical achievement of frontline demonstrations

S.No.	Enterprise	Demo	Area (ha)/units
a) CFLD on Pulses & Oilseeds			
1	Pulses	6319	2549.23
2	Oilseeds	9837	3679.00
	Total (a)	16156	6228.23
b) FLD other than pulses & oilseeds			
1	Cereals & millets	8257	3773.87
2	Vegetables	3894	287.30
3	Fruits	223	68.10
	Total (b)	12374	4129.27
	Grand Total (a+b)	28830	10357.50

3.1 Cluster FLD on Pulses and Oilseeds

3.1.1 Cluster FLD on Pulses

Technology demonstrations on pulses were organized on an area of 2549.23 ha involving 6319 farmers. The crop wise performance under CFLD pulses is exhibited in Table-3.2 & 3.3

Table-3.2: Performance of CFLDs on pulses.

Name of crop	No. of KVK	No. of Farmers	Area (ha)	Demo Yield (q/ha)	Check yield (q/ha)	% increase in yield
Pigeonpea	40	1648	760.60	90.44	71.26	26.92
Lentil	44	3021	1191.00	21.79	17.27	26.17
Blackgram	25	1126	418.70	21.23	15.34	38.40
Greengram	12	288	107.23	11.47	9.89	15.98
Chickpea	7	147	41.70	13.30	8.23	61.60
Fieldpea	3	89	30.00	16.31	14.00	16.50
Grand Total /Avg.	-	6319	2549.23	29.09	22.67	28.35

Table-3.3: Economic performance of CFLDs on pulses

Name of crop	No. of KVKs	Economics of demonstration (Rs/ha)				Economics of check (Rs/ha)			
		Gross cost	Gross Return	Net return	BCR	Gross cost	Gross Return	Net return	BCR
Pigeonpea	40	25825.57	94305.00	68122.25	3.65	24738.07	75509.59	50671.52	3.05
Lentil	44	23930.32	67972.29	43021.95	2.84	23097.06	52999.35	29899.35	2.29
Blackgram	25	24592.06	71669.18	47102.12	2.91	23295.53	55564.53	32269.00	2.39
Greengram	12	27886.00	78281.09	50395.09	2.81	27108.44	64405.48	37297.03	2.38
Chickpea	7	22473.86	78012.44	55538.61	3.47	21490.14	66177.15	44687.01	3.08
Fieldpea	3	24158.00	56209.67	32051.67	2.33	22865.33	46567.00	23701.67	2.04

Pigeon pea: The 40 KVKs conducted 1648 demonstrations on pigeon pea in ICM mode by covering an area of 760.60 ha, exhibited yield realization of 90.44 q/ha which was 26.92 % higher than local check with net return of Rs. 68122.25/ha.

Black gram: 25 KVKs laid out 1126 demonstrations on 418.70 ha area, exhibited yield levels of 21.23 q/ha against 15.34 q/ha in local checks which were 38.40% higher. A net return of Rs. 47102.12/ha was realized in demonstrations.

Green gram: Green gram related technologies were demonstrated by 12 KVKs with 288 demonstrations on 107.23 ha area. This crop is mainly grown as summer crop with average yield of 11.47 q/ha in demonstrations against 9.89 q/ha in local check with 15.98% increase. A net return of Rs.50395.09/ha was obtained from demonstrations.

Chickpea: The 03 KVKs conducted 147 demonstrations on chickpea by covering an area of 41.70 ha, exhibited yield of 13.30 q/ha against 8.33 q/ha of local check showing an increase of 61.60% higher than local check with net return of Rs. 55538.61/ha.

Field pea: 03 KVKs conducted 1118 demonstrations on an area of 30 ha in ICM mode. On an average 16.31q/ha yield of field pea was recorded in demonstrations, which was 16.50% higher over local check. Net return of Rs. 32051.67/ha was reported.

Lentil: 44 KVKs laid out 3021 demonstrations on 1191 ha area with lentil crop, exhibited 21.79 q/ha of productivity in demonstrations which was 26.17 % higher than local check (17.27 q/ha). A net return of Rs. 43021.95 q/ha was realized in demonstrations.

3.1.2 Cluster FLD on Oilseeds

Technology demonstrations on oilseeds were organized on an area of 3679 ha involving 9837 farmers. The crop wise information of CFLD oilseeds is exhibited in Table-3.4 & 3.5

Table-3.4: Performance of CFLDs on oilseeds

S. No.	Name of crop	No. of KVKs	No. of Farmers	Area (ha)	Demo Yield (q/ha)	Check yield q/ha)	% increase in yield
1	Mustard	85	6580	2438.00	13.79	9.17	50.38
2	Sesamum	46	1319	501.00	10.20	6.01	69.72
3	Toria	17	892	330.00	8.62	6.64	29.82
4	Groundnut	26	471	183.00	30.81	20.59	49.64
5	Linseed	9	285	110.00	10.62	8.87	19.73
6	Sunflower	8	136	50.00	12.89	11.28	14.27
7	Soyabean	6	154	67.00	4.97	3.13	58.79
Grand Total			9837	3679	13.13	9.38	41.76

Table-3.5: Economic performance of CFLDs on oilseeds

Name of crop	No. of KVKs	Economics of demonstration (Rs/ha)				Economics of check (Rs/ha)			
		Gross cost	Gross return	Net return	BCR	Gross cost	Gross return	Net return	BCR
Mustard	85	27052	91230	64055	3.37	26084	71539	45397	2.74
Sesamum	46	19798	57322	37524	2.90	18181	43271	25104	2.38
Toria	17	25426	73036	47610	2.87	24114	56443	34846	2.34
Groundnut	26	41584	111745	70161	2.69	36838	89470	51182	2.43
Linseed	9	25926	73903	47837	2.85	25082	55733	30585	2.22
Sunflower	8	23663	69900	46237	2.94	21913	56057	34144	2.54
Soyabean	6	69981	90484	54872	1.29	64220	77516	48201	1.21
Total/Avg.		33347	81088	52614	2.43	30919	64290	38494	2.08

Mustard: The demonstrations on mustard were laid out by 85 at 6580 farmers' fields at 2438 ha area by all the KVKs. On an average 13.79 q/ha of yield was recorded in demonstrations, which was 50.38% higher over local check (9.17 q/ha). A net return of Rs 64055/ha was realized in demonstrations.

Sesamum: The demonstrations on sesame were laid out by 46 KVKs at 1319 farmers' fields on 501.00 ha area. On an average 10.20 q/ha of yield was recorded in demonstrations, which was 69.72% higher over local check (6.01 q/ha). A net return of Rs. 37524/ha was realized in demonstrations.

Toria: Seventeen KVKs conducted demonstrations in an area of 330 ha area with involvement of 892 farmers. On an average 8.62 q/ha yield of Toria was recorded in demonstrations, which was 29.82 % higher over local check (6.64 q/ha). Net return of Rs. 47610/ha was recorded.

Groundnut: Twenty six KVKs conducted total of 471 demonstrations in an area of 183 ha (summer & kharif season) with productivity level of 30.81 q/ha which was 49.64 % higher over local practice. The net return of Rs. 70161/ha was realized in demonstrations while it was Rs. 51182 in local check.

Linseed : Nine KVKs conducted 285 demonstrations on linseed by covering an area of 110 ha, exhibited yield of 10.62 q/ha against 8.87 q/ha of local check showing an increase of 19.73% higher than local check with net return of Rs. 47837/ha.

Sunflower : Eight KVKs conducted 136 demonstrations on sunflower by covering an area of 50 ha, exhibited yield of 12.89 q/ha against 11.28 q/ha of local check showing an increase of 14.27 % higher than local check with net return of Rs. 46237/ha.

Soybean : Six KVKs conducted 154 demonstrations on soybean by covering an area of 67.00 ha, exhibited average yield of 4.97 q/ha against 3.13 q/ha of local check showing an increase of 58.79% higher than local check with average net return of Rs. 54872/ha.

3.2 FLD other than oilseeds and pulses

3.2.1 FLD on Cereal crops

A total of 8257 demonstrations were demonstrated in an area 3773.87ha on cereals covering important cereal and millets crops like paddy, wheat, barley, maize and bajra in all the cropping seasons. Details are given in Table-3.6.

Table 3.6: Thematic area wise performance of different cereal crops under FLD

Name of crop	No. of KVKs	Thematic area	No. of Farmers	Area (ha)	Demo Yield q/ha	Check Yield (q/ha)	% Increase in yield
Paddy	31	Varietal	1041	404.55	49.01	40.29	21.64
Paddy	18	ICM	1061	445.53	55.00	34.56	59.14
Paddy	16	INM	179	134.12	47.00	40.28	16.68
Paddy	17	IPM	244	211.36	48.94	40.38	21.20
Paddy	11	IWM	122	102.28	46.60	39.75	17.23
Paddy	10	IDM	283	109.00	53.99	47.53	13.59
Paddy	10	RCT	177	70.50	42.29	33.30	27.00
Total	89		3107	1477.34	48.98	39.44	25.21
Scented Rice	1	IPM	20	8.00	46.94	43.38	8.21
Scented Rice	7	Varietal	135	38.00	39.08	28.42	37.51
Scented Rice	4	INM	50	23.00	38.30	30.29	26.44
Total	12		205	69	41.44	34.03	21.77
Wheat	5	FM	146	113.20	41.70	33.40	24.85
Wheat	18	ICM	1174	391.55	43.30	36.39	18.99
Wheat	5	IDM	128	44.00	42.05	37.12	13.28
Wheat	19	INM	345	110.80	42.05	37.12	13.28
Wheat	11	IWM	194	135.25	43.99	36.94	19.09
Wheat	7	RCT	264	80.30	45.83	39.76	15.27
Wheat	51	Varietal	1979	695.60	46.87	40.13	16.80
Total	89		4230	1570.70	43.68	37.27	17.22
Maize	1	IPM	5	78.50	38.40	32.10	19.63
Maize	10	Varietal	158	410.17	34.92	31.48	10.93
Maize	2	IDM	16	3.00	31.19	23.63	31.99
Total	13		179	491.67	34.84	29.07	19.84
Barley	9	Varietal	168	55.90	-	-	-
Total	9		168	55.9	-	-	-
Bajra	2	ICM	41	8.20	24.00	13.20	81.82
Bajra	3	INM	24	6.80	13.50	10.85	24.42
Bajra	12	Varietal	303	94.26	22.57	18.94	19.17
Total	17		368	109.26	20.02	14.33	39.73
G.Total	-	-	8257	3773.87	37.79	30.83	24.76

Paddy: The demonstrations on 7 thematic areas were conducted at 3107 farmers' fields on 1477.34 ha area by 89 KVKs. The average yield of 48.68 q/ha was achieved in demonstrations, which was 25.21% higher over local check (39.44 q/ha). The highest yield of 55.00 q/ha was recorded in ICM component followed by 53.99 q/ha under IDM.

Wheat: The wheat demonstrations on different thematic areas were conducted at 4230 farmers' fields covering an area of 1570.70 ha. On an average 43.68 q/ha of yield was recorded in demonstrations, which was 17.22 % higher over local check (37.27 q/ha). The highest yield of 46.87q/ha was recorded under Varietal.

Maize: Seven KVKs laid out maize demonstrations at 179 farmers' field covering an area of 491.67 ha. On an average 34.84 q/ha of yield was obtained over local check (29.07q/ha) which was 19.84 %. The highest yield of 38.40 q/ha was recorded under IPM.

Millets:

Bajra: The demonstrations on varietal and integrated crop management of bajra were laid out at 368 farmers' fields on 109.26 ha area. On an average 20.02 q/ha of yield was recorded in demonstrations, which was 39.73 % higher over local check (14.33 q/ha). The highest yield of 24.00 q/ha was recorded under ICM.

3.2.2 FLD on Vegetable crops

A total of 3894 demonstrations on 287.30 ha were laid out on vegetables covering 17 important crops in all the three crop seasons by 89 KVKs. Average demo yield (q/ha) and percentage increase in yield obtained under Bottlegourd (459.05, 32.39%), Bittergourd (338.21, 19.47%), Tomato (357.92, 25.33%), Chilli (121.71, 6.80%), Brinjal (388.50, 22.80%), Broccoli (153.27, 69.34%), Okra (157.41, 19.87%), Vegetable Pea (201.20, 16.82%), Onion (212.82, 17.05%), Capsicum (153.50, 36.69%), Cauliflower (252.39, 19.98%), Garlic (118.14, 14.20%), Pointed gourd (93.95, 9.09%), Pumpkin (384.83, 19.39%), radish (272.45, 30.88%), Sponge gourd (393.78, 17.05%), carrot (271.59, 12.90%) were recorded. Thematic wise details are shown in following Table 3.7.

Table 3.7: FLD on Vegetables

Name of crop	No. of KVKs	Thematic area	No. of Farmers	Area (ha)	Demo Yield q/ha	Check Yield (qha)	% Increase in yield
Bottlegourd	9	Varietal	150	9.48	419.19	313.66	33.64
	2	ICM	225	2.50	385.00	305.00	26.23
	1	INM	5	0.50	305.00	225.00	35.56
	1	IPM	10	0.80	727.00	542.00	34.13
Total/Avg.			390	13.28	459.05	346.42	32.39
Bittergourd	3	Varietal	300	6.25	217.80	182.25	16.58
	1	ICM	310	1.50	325.00	285.00	8.29
	3	INM	340	10.50	351.00	291.00	20.62
Total/Avg.			950	18.25	338.21	276.17	19.47
Tomato	19	Varietal	554	25.62	414.99	305.70	35.75
	2	ICM	10	3.00	421.18	333.65	26.23
	1	INM	20	8.00	350.00	285.00	22.81
	1	IDM	30	12.00	470.13	370.89	26.76
	1	IRC	10	5.00	259.80	218.50	18.90
	1	IPM	5	0.40	231.40	190.40	21.53

Total/Avg.			629	54.02	357.92	284.02	25.33
Chilli	9	Varietal	100	11.10	121.71	113.96	6.80
	1	ICM	20	2.00	-	-	-
	2	IPM	28	10.00	-	-	-
Total/Avg.			148	23.10	121.71	113.96	6.80
Brinjal	12	Varietal	200	24.04	484.77	375.67	29.04
	3	ICM	34	3.50			
	1	INM	10	1.00	465.50	401.20	16.03
	1	IPM	20	4.00	215.24	174.54	23.32
Total/Avg.			264	32.54	388.50	317.14	22.80
Broccoli	4	Varietal	42	4.50	153.27	90.51	69.34
Total/Avg.			42	4.50	153.27	90.51	69.34
Okra	18	Varietal	382	27.00	118.31	97.49	21.36
	2	IPM	20	4.00	196.50	166.00	18.37
Total/Avg.			402	31.00	157.41	131.74	19.87
Vegetable Pea	4	Varietal	65	3.20	117.55	99.23	18.47
	5	ICM	102	13.08	377.59	317.30	19.00
	1	IDM	10	4.00	108.46	96.00	12.98
Total/Avg.			177	20.28	201.20	170.84	16.82
Onion	22	Varietal	262	25.33	266.95	221.26	20.65
	1	ICM	19	5.00	134.00	110.00	21.82
	2	IDM	15	7.00	237.50	218.50	8.70
Total/Avg.	1		296	37.33	212.82	183.25	17.05
Capsicum		Varietal	7	0.50	153.50	112.30	36.69
Total/Avg.			7	0.50	153.50	112.30	36.69
Cauliflower	12	Varietal	362	16.29	250.16	190.43	31.36
	1	INM	5	0.40	204.00	172.00	18.60
	1	IDM	19	8.80	303.00	275.50	9.98
Total/Avg.			386	25.49	252.39	212.64	19.98
Garlic	2	Varietal	20	0.75	167.50	141.00	18.79
	1	IDM	5	2.00	68.77	62.74	9.61
Total/Avg.			25	2.75	118.14	101.87	14.20
Pointed Gourd	1	Varietal	10	0.50	170.00	168.00	1.19
	1	ICM	10	4.00	17.90	15.30	16.99
Total/Avg.			20	4.50	93.95	91.65	9.09
Pumpkin	2	Varietal	15	1.50	384.83	322.33	19.39
Total/Avg.			15	1.50	384.83	322.33	19.39
Radish	2	Varietal	17	0.96	272.45	208.18	30.88
Total/Avg.			17	0.96	272.45	208.18	30.88
Spongegourd	7	Varietal	98	12.70	393.78	336.43	17.05
	1	IPM	5	2.00	393.78	336.43	17.05
Total/Avg.			103	14.70	393.78	336.43	17.05
Carrot	3	Varietal	23	2.60	271.59	240.55	12.90
Total/Avg.			23	2.60	271.59	240.55	12.90
Grand Total/Avg.			3894	287.30	254.75	208.24	22.94

3.2.3 FLD on fruit crops

Under FLD on fruits component, a total of 18 KVKs conducted 223 demonstrations on 68.10 ha area by conducting demonstrations on banana, guava, mango, papaya, strawberry, potato and with an average yield of 1004.76, 139.85, 213.10, 855.00, 225.00 and 324.85 respectively. Percentage increase in yield of banana (21.41%), guava (30.01%), mango (21.49%), papaya (44.79%), strawberry (12.50%), potato (12.72%) were obtained. Details are shown in Table 3.8.

Table 3.8: FLD on fruits

Name of crop	No. of KVKs	Thematic area	No. of Farmers	Area (ha)	Demo Yield q/ha	Check Yield (qha)	% Increase in yield
Banana	1	Varietal	11	0.50	886.67	652.67	43.51
	1	IPM	15	3.00	911.00	825.00	10.42
	2	IDM	12	12.90	1098.53	829.78	32.39
Total/Avg.			38	16.40	1004.76	827.39	21.41
Guava	4	IPM	30	10.00	139.85	107.57	30.01
Total/Avg.			30	10.00	139.85	107.57	30.01
Mango	2	IPM	15	6.00	213.10	175.40	21.49
	2	VARIETAL	20	11.00	-	-	-
Total/Avg.			35	17.00	213.10	175.40	21.49
Papaya	1	VARIETAL	4	1.00	855.00	590.50	44.79
Total/Avg.			4	1.00	855.00	590.50	44.79
Strawberry	1	VARIETAL	4	0.50	225.00	200.00	12.50
Total/Avg.			4	0.50	225.00	200.00	12.50
Saunf	1	ICM	11	0.90	21.70	16.40	32.32
	1	INM	5	0.40	-	-	-
Total/Avg.			16	1.30	21.70	16.40	32.32
Potato	1	VARIETAL	10	4.00	349.50	296.10	18.03
	1	ICM	86	17.90	300.20	279.50	7.41
Total/Avg.			96	21.90	324.85	287.80	12.72
G.Total/Avg.			223	68.10	321.54	269.09	21.74

CFLD ON PULSES



CFLD on Linseed Var.-JLS 79: KVK Hamirpur



CFLD on Pigeonpea (IPO 203): KVK Hamirpur



CFLD on Greengram (Shikha): KVK Badhohi



CFLD on Fieldpea : KVK Hardoi-II



CFLD on Vegetable pea (Kashi Angeti) : KVK Kaushambi



CFLD on Blackgram (shekhar-2) : KVK Kaushambi



CFLD on Lentil (Shekhar-4): KVK Amroha

CFLD ON OILSEEDS



CFLD on Mustard Var.-RH 725 : KVK Hamirpur



CFLD on Sesamum (GJT-5): KVK-I Prayagraj



CFLD Mustard: KVK Kushinagar



CFLD on sunflower (PSH-816): KVK Kaushambi



CFLD on sesamum (GJT-5): KVK Kaushambi



CFLD on Mustard (Usar Avrodhi): KVK Pratapgarh



CFLD on Groundnut: KVK Unnao



CFLD on Mustard (PM-32): KVK Unnao

FLDs OTHER THAN OILSEED & PULSES



Nutri Garden & Multi Layer Cropping Unit-2 :
KVK Hamirpur



FLD on Nutritional Gardening: KVK Jhansi



FLD on Millet (Bajra): KVK Mathura



FLD on Turmeric var. Megha: KVK Badhohi



FLD on wheat (HD-3298): KVK Badhohi



Demonstration on Agri-Drone: KVK Bareilly



FLD on paddy (Pusa Sambha 1850): KVK Deoria



FLD on paddy (DR 8375)

FLDs OTHER THAN OILSEED & PULSES



FLD on Bajra (MP 7878): KVK Kaushambi



FLD on Natural farming: KVK Sitapur-II



FLD on Tomato: KVK Pratapgarh



FLD on DSR: KVK Unnao



FLD on wheat (HD-3298): KVK Unnao

Chapter-4

TECHNOLOGY ASSESSMENT

KVKs of Uttar Pradesh are performing on-farm testing to identify the location specificity of agricultural technologies under various micro farming situations. Total 1034 technologies were assessed and 4212 trials conducted under three categories namely, crop (3030), livestock (778) and other enterprises (404) are shown in following Table 4.1.

Table-4.1 Physical achievement of Technologies Assessed at a glance

Category of technologies assessed	Technology	Trials
Crop	813	3030
Livestock	167	778
Other enterprise	54	404
Total	1034	4212

4.1 CROP RELATED TECHNOLOGY ASSESSMENT

KVKs of Zone III of Uttar Pradesh conducted on-farm trials in 11 major thematic areas. Total of 813 technologies were assessed with active involvement of 3030 farmers. Cereals, pulses, oilseeds, vegetables, fruits, cash crops, etc. were assessed under twelve thematic areas namely Varietal assessment (108), integrated pest management (162), integrated nutrient management (133), integrated disease management (131), integrated crop management (64), weed management (129), resource conservation technologies (43), drudgery reduction (18), integrated farming system (6), Information & communication technology (3) and farm mechanization (16), etc.

Table-4.2 Crop related technologies assessed by KVKs

Thematic Area	No. of Technologies	No. of Trials	No. of KVKs
Integrated Nutrient Management (INM)	133	540	60
Varietal Evaluation (VE)	108	417	45
Integrated Pest Management (IPM)	162	620	61
Integrated crop management (ICM)	64	316	33
Integrated disease management (IDM)	131	410	56
Weed Management (WM)	129	436	60
Integrated Farming system (IFS)	6	11	3
Farm Mechanization (FM)	16	43	12
Drudgery reduction (DR)	18	30	4
Resource conservation Technology (RCT)	43	117	24
Information and communication technology (ICT)	3	90	2
Total	813	3030	-

4.2 ASSESSMENT OF LIVESTOCK TECHNOLOGIES

A total of 167 technologies were assessed under livestock management by KVKs of Zone III Uttar Pradesh with active participation of 778 partner farmers (Table-4.3). The technologies related to different thematic areas like feed and fodder management (21), nutritional management (39), disease management (13), production & management (8), dairy management (14), composite fish culture (25) and health management (2) were assessed.

Table 4.3: Assessment of livestock technologies

Thematic Area	Enterprises	No. of Technologies	Trial	No. of KVKs
Disease Management	Cow, Buffalo, goat, calf,	13	150	12
Evaluation of breed	Cow, Buffalo, goat, calf	5	23	4
Feed and Fodder management	Cattle, Buffalo, fodder	21	73	12
Nutrition Management	Cattle, Buffalo and Goat	39	271	29
Production and Management	Goat	8	36	7
Health Management	Cow, Buffalo, goat, calf,	2	4	6
Composite fish culture	Fishery	25	104	17
Dairy Management	Dairy	14	72	10
Others	-	40	45	8
Total		167	778	-

4.3 ASSESSMENT OF TECHNOLOGIES RELATED TO ENTERPRISES

Thematic areas like value addition (10), drudgery reduction (7), household food security (12), women empowerment (3), nutritional gardening (9) and other (7) were taken up for assessment. 404 beneficiaries were involved in different enterprises (Table-4.4). Kitchen gardening, house hold security, value addition, Agro forestry Management, small scale income generation etc. were considered as an economic activity and to support nutritional security of the farmers.

Table 4.4: Assessment of various enterprises

Thematic Area	Enterprises	No. of Technologies	Trial	No. of KVKs
House hold food security	Vegetables	12	62	3
Value Addition	Paneer, aonla, Badi, Flour	10	72	8
Small scale income generation	Honey Production, Composite Fish Culture	1	4	1
Drudgery Reduction	Drudgery reduction	7	69	9
Women Empowerment	Women empowerment	3	65	3
Farm Machinery	Farm Machinery	5	13	2
Nutritional Gardening	Kitchen Gardening	9	70	4
Other (Pl specify)	Honey Production, Composite Fish Culture etc.	7	49	5
Total		54	404	-

4.4 RESULTS OF SELECTED ON FARM TRIALS

VARIETAL EVALUATION

Problem definition: Lower productivity & profitability in Okra cultivation due to cultivation of traditional variety. (KVK Mathura)

Technology assessed or refined: Performance of yield of new Okra variety Kashi Vardan

KVK, Mathura U.P. conducted on-farm trial to find the performance of yield of new Okra variety Kashi Vardan during Kharif 2024. Under assessed technology Kashi Vardan variety released in 2019 was tested. The result showed that the variety Kashi Vardan gave 22.50 % higher yield over local check which recorded 147 q./ha yield.

Table Performance of yield of new variety of Okra Kashi Vardan

Technology Option	No. of trials	Yield (q./ha)	Increase in Yield (%)	Net return	B:C Ratio
T1-Farmers practice: Use of Jhilmil	5	120	22.50	148000	3.36
T2-Use of Kashi Vardan		147		188700	4.05

The use of new Okra variety Kashi Vardan not only gave 22.50 % higher yield over local check but its fruits are also better in terms of quality (Colour and size)

Selling price of Okra Rs. 1600/q., Gross Cost of Cultivation of T1: Rs. 44000 /ha & T2- 46500/ha respectively.

Problem definition: Low yield of wheat due to old varieties under timely sown condition (KVK Kannauj)

Technology Assessed: Assessment of suitable variety of wheat.

(1) Yield and Economic performance of the varieties

Technology Option	No. of trials	Yield (q/ha)	% age increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BC Ratio
Variety DBW 222	10	56.55	-	45000	130065	85065	2.9
Variety DBW 187		61.74	09.18	45000	142002	97002	3.2

(2) Yield and growth parameters of the varieties

Technology Option	No. of trials	Plant height (cm)	No. of tillers/plant	No. of tillers/sqm	Ear length (cm)	No. of grains/ ear	Test weight (g)
Variety DBW 222	10	90.4	8.58	389	11.50	61.2	41.08
Variety DBW 187		87.6	9.06	396	12.15	63.6	40.11

Wheat variety DBW 222 and DBW 187 were tested under timely sown condition to assess the suitability of the varieties. Variety DBW 187 recorded higher grain yield by 9.18% and net income by 14.03% over the variety DBW 222. Number of tillers per plant and per sqm, ear length and number of grains per ear were recorded higher in variety DBW 187 over variety DBW 222, while plant height and test weight per 1000 grain were recorded in DBW 222 over variety DBW 187.



Wheat Variety DBW 222



Wheat Variety DBW 187

Problem definition: Poor yield of mustard in salt affected areas due to cultivation of traditional varieties (KVK-II Hardoi)

Technology Assessed: Salt tolerant variety of Mustard with improved management practices in sodic soil.

KVK (ICAR-CSSRI-RRS) Hardoi II conducted an On Farm Trial on assessment of salt tolerant variety of mustard with improved management practices in sodic soil during rabi 2-24 at five farmer's field. In trial one the mustard variety Varuna was sown as a farmer's practice while in trial II Salt tolerant variety of Mustard CS 60 with improved management practices was used. In trial one the mustard variety varuna was sown as a farmer's practice while in trial-2, Salt tolerant variety of mustard CS 60 with bioformulations & nutrient management on the basis of soil testing, which gave higher yield over farmer's practice i.e., 14.70 q/ha which was more than farmer's practice i.e., 9.04q/ha. BCR from trial-2 was also higher i.e., 5.51 than trial -1 i.e., 2.98.

(1) Soil status of the trial before sowing

Parameters of soil	Soil texture	pH (2.5:1)	E.C. (mS/cm)	O.C. Per cent	Available Kg. per ha.		
					N	P	K
Values	Sandy loam to Clay loam	8.5-9.2	0.30-0.45	0.25-0.33	125-155	7.5-10.75	155-199

(2) Performance of salt tolerant variety of mustard at farmers field

Technological Options	Number of Farmers	Yield (q/ha)	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	Net Return (Rs./ha)	BCR (Rs/Rs)
T ₀ - Farmers practices (RH 749) with imbalance use of fertilisers (N:P:K, 140:80:00)	06	9.04	18500	55076	36576	2.98
T ₁ - Use of salt tolerant Variety (CS 60) and improved management practices (use of Bio-formulations, Halo PSB + Halo Zn + Halo Azo +N:P:K, 100:46:20)		14.70	16350	90055	73535	5.51

Problem definition: Low yield due to use of old varieties and disease susceptible varieties (KVK Saharanpur)

Technology Assessed: To evaluate yield potential of mid maturing variety of vegetable pea (Pusa Prabal)

To increase yield and income of vegetable pea farmers along with the aim to increase pea area in the region, KVK Saharanpur conducted on-farm trial on evaluating the yield potential of mid maturing variety of pea (Pusa Prabal). The details of results are given below:

To evaluate yield potential of mid maturing variety of vegetable pea (Pusa Prabal)

Treatments	No. of trial	Yield (q/ha)	% change in Yield	Seeds per pod	Gross Cost (Rs./ha)	Gross return (Rs./ha)	Net Income (Rs. in lakh/ha)	BC Ratio
T1: Arkel (FP)	05	66.25	---	7	52242.75	95750.50	43507.75	1.83
T2: Pusa Prabal		91.77	38.52	8	49570.00	134501.25	84931.25	2.71

Recommendation – Farmers got vegetable pea yield 66.25 q/ha. By using old varieties like Arkel, whereas the yield of pea was increased to 38.52% as they got an yield of 91.77 q/ha by sowing newly released variety Pusa Prabal.

Farmer reaction – According to the farmers the variety was straight podded and sweet in taste and did not lost its taste even at higher temperature in the month of March. The variety also showed resistance towards powdery mildew and Fusarium wilt which are the major constraints for pea growers in this belt.



Problem definition: Low Productivity of Timely Sown Wheat (KVK Bijour)

Technology Assessed: Evaluation of newly released high yielding timely sown wheat variety against disease resistance and better yield.

The KVK Bijour conducted On-farm trial on timely sown wheat varieties to find out suitable high yielding timely sown wheat varieties for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties tested were DBW-370, DBW-371 and HD-2967 as check. The sowing dates of these varieties are 05 to 15 November 2023 with 10 to 18 April 2024 harvesting dates also. The results revealed that yield increase of Timely sown wheat varieties 10.67 to 16.27 percent over farmers practice. The variety DBW-371 gave highest yield of 60.00 qt. per ha with net return of Rs. 119280.00 and BCR of 3.44. The others technical data as given below:

- Variety DBW-371 takes more or less same crop duration as comparison to DBW-370 & HD-2967.
- The lodging in DBW-371 is 2-5% in comparison DBW-370 (5-8%) and HD-2967 (7-14%).
- Karnal bunt incidence in DBW-371 & DBW-370 is none while it is about 5-12% in HD-2967.

Evaluation of newly released high yielding variety

Technology Option	No. of trials	Yield (qt/ha)	Increase in yield (%)	Lodging (%)	Disease incidence (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ - Local (HD-2967)	01 (05 farmers field)	51.60	--	7-14	5-12	78,215.00	2.57
T ₂ - DBW-371		60.00	16.27	2-5	0	97,280.00	3.00
T ₃ - DBW-370		57.12	10.67	5-8	0	89,460.00	2.82



INTEGRATED NUTRIENT MANAGEMENT

Problem – Poor growth and quality of tomato fruit due to imbalance use of fertilizer (KVK Varanasi)

Technology Assessed: Assessment of interaction effect of zinc and boron on growth and yield of tomato

KVK, Varanasi conducted on assessment of interaction effect of zinc and boron on growth and yield of tomato, the performance of T2 given 36.47 % higher yield over farmer practice with net profit Rs. 230800 per ha.

Effect of INM on yield and economics of tomato

Technology Option	No. of Trial	Average fruit weight (g)	Average No. of fruits/plant	Yield (q/ha)	% Yield increase	Gross Return	Net return	BCR
T ₁ - Farmer's practice (No use of micro nutrients)	05	60	14	425	-	212500	156100	3.77
T ₂ - Application of zinc sulphate and borax @ 10 kg/ha + one time foliar spray of Zn & B @0.5 at 24 DAT		70	17	580	36.47	290000	230800	4.90

Problem definition: Lower yield, quality of fruit and profitability due to imbalance application of nutrients (KVK Siddharthnagar)

Technology Assessed (as the case may be): Effect of Water Soluble Fertilizer to increase yield of Bottle gourd.

KVK, Siddharthnagar conducted on-farm trial to find out appropriate nutrient management practice to enhance the bottle productivity. The assessed the technique of 50% Recommended Dose Fertilizer (NPK: 120:80:80 kg/ha) + Three foliar Spray of NPK (19:19:19) @ 5gm/lit was found to be better with 77.53 % increase

Effect of water soluble fertilizer NPK (19:19:19) to increase yield of bottle gourd

Technology Option	No. of trials	No. of fruit/plant	Size of fruit indicators/parameter		Average fruit weight (g)	Yield (kg/ha)	Increase in Yield (%)	Gross cost (Rs/ha)	Net Return (Rs./ha)	B:C Ratio
			Length (cm)	width (cm)						
T ₁ - Imbalanced Use of Fertilizer	05	6.2	25.6	6.2	570	151.30	--	95500	101190	2.05
T ₂ - 50% Recommended Dose Fertilizer (NPK: 120:80:80 kg/ha) + Three foliar Spray of NPK (19:19:19) @ 5gm/lit.		10.8	38.2	8.6	1011	268.60	77.53	88000	268180	3.96

*Sale price of bottle gourd Rs. 1300/q



Problem definition: Lower productivity of Paddy in partially reclaimed sodic soils and poor soil fertility status (KVK Unnao)

Technology Assessed (as the case may be): Use of Salt tolerant Paddy (SHIAUT DHAN-4) and Wheat (KRL-283) Variety with halophilic bio formulation (Halo-Mix) with green manuring and CRM. Use of glycophytic Paddy & Wheat varieties in salt affected soils without any specific nutrient management planning for such soil conditions causes lower productivity and poor soil fertility.

KVK, Unnao Introduced the halophilic bio formulation (Halo-Mix) with salt tolerant varieties of Paddy and Wheat including green manuring and CRM before paddy and wheat crop respectively.

Performance of Paddy crop with integrated Nutrient Management approach:

Technology Option	No. of Trial	1000 grain weight	Advantage (%) on 1000 grain weight	Grain Yield Q/ha	Gross cost (Rs/lit)	Gross Return (Rs/ha)	Net Returns (Rs/ha)	B:C Ratio
T1-Farmer's Practice (Use of glycophytic Paddy varieties)	5	25.1	4.38%	37.1	37200	74,200	37,000	1.99
T2- Farmer's Practice (Use of glycophytic Paddy varieties) + Halo-Mix		25.7		39.2	37600	78400	40,800	2.09
T3- Use of salt tolerant variety (SHIAUT DHAN-4 + Halo Mix)		26.2		42.8	38500	84,600	46,100	2.22

Effect of Integrated Nutrient Management approach on different parameters after Harvest of Paddy

Technology Option	No. of Trial	Soil pH	Organic Carbon (%)	Available Nitrogen (Kg/ha)	Available Phosphorus (Kg/ha)	Available Zinc (mg/kg)
T1-Farmer's Practice (Use of glycophytic Paddy varieties)	5	8.74	0.24	165.8	16.2	0.7
T2- Farmer's Practice (Use of glycophytic Paddy varieties) + Halo-Mix		8.71	0.28	168.5	17.1	0.9
T3- Use of salt tolerant variety (SHIAUT DHAN-4 + Halo Mix)		8.71	0.29	168.4	16.9	0.8

Problem definition: High cost of production and low yield. (KVK GB Nagar)

Technology Assessed: To assess the water soluble fertilizers on wheat yield and cost of production

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	No. of Grain/spike	Net Return (Rs./ha)	B:C Ratio
T ₁ - Farmers practice {150:60:0 kg/ha NPK}	05	57.7	-	63.6	117970.00	2.90:1
T ₂ - 75% RFD (120:60:40 kg NPK/ha) as basal + 1 spray of NPK (0:52:34) @ 2.0 kg/acre + nano urea @ 0.5 lt/acre		60.9	5.5	66.0	127550.00	3.20:1

Note: In general, yield was higher in Rabi 2023-24 due to favorable climatic condition.
Cost of Production under T₁ -Rs. 40800.00 and T₂ -Rs 40000.00. {Sale Price - Rs 2275.00}

KVK conducted an on farm trial to assess the effect of water soluble fertilizer on wheat yield and its economics. The variety in trial was DBW-0187 / DBW-222 and soil of field was medium to heavy textured. The application of 75% of recommended fertilizer dose as basal (RFD- 120:60:40 kg/ha NPK) and 1 foliar application of water soluble NPK (0:52:34) @ 2.0 kg/acre + 1 spray of nano urea @ 0.5 l/acre gave 5.5 % higher yield and gave Rs. 0.30 extra benefit over farmer practice due to 3.8% increase in no. of grains/spike. The foliar application of water soluble NPK at the time of panicle emergence increased no. of grain. Application of water soluble fertilizer reduces the cost of production of wheat.



INTEGRATED PEST MANAGEMENT

Problem definition: Low yield due to Sclerotinia rot rapeseed-mustard (KVK-II Lakhimpur Kheri)

Rapeseed-mustard is an important crop which is grown as main crop as well as intercrops for oil seed purpose. It occupies very important position in semi-arid farming system for human nutrition. 'Sclerotinia rot rapeseed-mustard earlier considered to be minor problem in Lakhimpur Kheri has now become a serious problem. The disease gained importance particularly in raya growing areas, where it led to complete crop failure. Sclerotinia rot in epidemic form are known to cause losses up to 60 per cent leading to the discouragement of growers of the crops. (KVK-II Lakhimpur Kheri)

Technology Assessed : Integrated management of Sclerotinia stem rot in Mustard

KVK-II, Lakhimpur Kheri has conducted OFT on "Integrated management of Sclerotinia stem rot in Mustard" is an important oil seed crops of the Lakhimpur District which covers more than maximum 40% of the cropping area. However, in past few years there is very high stem rot disease incidence and severity in mustard growing areas resulting greater yield loss. In the present demonstration, combination of Seed treatment with Trichoderma viride and T. harzianum @ 10 gm/kg seed + carbendazim @ 2 gm/kg seed at the time of sowing + Soil application of Trichoderma viride and T. harzianum 2.5 kg/ha pre-incubated in 300 kg FYM/ha in 10 days prior to sowing + spray of carbendazim @ 2g/l of water in standing crop in TO-III was found superior in term of less disease incidence (18.78 %) with maximum disease control (43.73%) among other technical option (TOII,TOI and TO0).

Table: Integrated management of Sclerotinia stem rot in Mustard

Technology Option	No. of trials	Pest Infestation parameter		Results of indicators/parameter)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
		Disease incidence(%)	Disease incidence (%)						
Technical Option 0: Spraying of fungicide	4	38.75		-	14.43	-	20689	54461	2.48
Technical Option -I: Seed treatment with Trichoderma viride and T. harzianum @ 10 gm/kg seed + carbendazim @ 2 gm/kg Seed at the time of sowing		21.57	35.58	17.67	16.98	17.67	20689	60001	3.10

Technical Option-II: Soil application of Trichoderma viride and T. harzianum 2.5 kg/ha pre-incubated in 300 kg FYM/ha in 10 days prior to sowing.		24.78	24.18	9.42	15.79	9.42	20689	58261	2.81
Technical Option -III: Seed treatment with Trichoderma viride and T. harzianum @ 10 gm/kg seed + carbendazim @ 2 gm/kg Seed at the time of sowing + Soil application of Trichoderma viride and T. harzianum 2.5 kg/ha pre-incubated in 300 kg FYM/ha in 10 days prior to sowing + spray of carbendazim @ 2g/lt of water in standing crop		18.78	43.73	30.49	18.83	30.49	20689	73461	3.55

INTEGRATED DISEASE MANAGEMENT

Problem definition: A severe outbreak of Charcoal rot (*Macrophomina phaseolina*) causes premature ripening, shredding and breaking at the crown region, plant exhibit wilting symptom and yield loss upto 30%. (KVK Jaunpur-I)

Technology Assessed (as the case may be): Management of Charcoal rot in maize.

Maize (*Zea mays* L.) is the world's leading crop, Globally, it is cultivated on more than 160 m ha area across 166 countries. In India, maize is the third important food crop after rice and wheat. According to latest data (2010-11), it is being cultivated on 8.6 m ha with 80% area during Kharif season. The current maize production is 21.7 mt, with an average productivity of 2.5 t/ha. KVK Buxa conducted on farm trial to management of charcoal rot of maize and result proves that seed treatment with carbendazim and soil

Effect of carbendazim, and T viride in control of Charcoal rot in maize.

Technology Option	No. of trials	No. of infected plant/m ²	Yield (q/ha.)	Incidence of charcoal rot (%)	% Increase in yield over farmer's practice	Cost of Cultivati	Gross cost (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Spray of SAAF @ 2gm/lt. water	05	3.85	19.85	23	--	21845	41486	19641.5	1.89
Seed treatment with carbendazim @ 3g/Kg. seeds + soil application of T viride @ 2.5 kg/ha. Apply potash @ 80 kg/ha.		1.05	22.85	6	13.12	23985	47756.5	23771.5	2.10

Problem definition: Heavy infestation of fruit borer in Chilli. (KVK Mau)

Technology Assessed (as the case may be): Assessment of the efficacy of Indoxacarb & Neem Oil on Fruit borer in Chilli.

Chili is an important vegetable crop of Eastern UP. However, there is high incidence of fruit borer in chili. The refined technology to control fruit borer in chili with Indoxacarb + Neem Oil to spray. It controlled the disease incidence and the yield increased over farmer practice.

Effect of Indoxacarb + Neem Oil in Chili

Technology Option	No. of trials	Major parameter	Results of indicators/parameter)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
T1- Use of inadequate Meilathiyan50 EC (Farmers Practice)		Incidence of fruit borer (%)	10	110.0	—	51430	207070	5.02

T2- Indoxacarb 14.5 SC @ 0.5ml/lit+ Neem Oil (Recommended Practice) (Before flowering - Neem oil @ 3ml/lit. After start fruiting- Neem oil @ 2ml/lit + Indoxacarb 14.5 SC @ 0.5ml/lit spraying 2 times at the interval of 15 days	05		Nil	120.0	9.54	54640	228535	5.18
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Selling Rate: Rs. 2350.0/Qt



Problem definition: Low yield of tomato due to severe infestation of fruit borer.

Technology Assessed (as the case may be): Management of Fruit borer in tomato (KVK Siddharthnagar)

Tomato is an important cash crop of district siddharthnagar. However, there is high infestation of fruit bore of resulting in yield loss. KVK conducted on-farm trial to Management of Fruit borer in tomato. The refined technology of Spray of Neemarin @ 5 ml/lit at 15 days interval and Spray of Emamectin benzoate 5% SG @ 0.40g/lit reduced the percentage of insect infestation from 28 to 9 and yield was increased by 35.22 per cent.

Effect of Neemarin and Emamectin benzoate on tomato fruit borer

Technology Option	No. of trials	infested fruit (m ²)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs/ha)	Net Return (Rs./ha)	B:C Ratio
T1-Farmer's practice (Injudicious use of insecticide)	5	28	324.5	-	76000	183600	3.42
T2- Spray of Neemarin @ 5 ml/lit at 15 days interval and Spray of Emamectin benzoate 5% SG @ 0.40g/lit		09	438.8	35.22	84000	267040	4.18

Sale Price of Tomato 800/qt



Problem definition: Poor yield & quality of fruits due to infestation of scarring beetle (*Colaspis hypochlora*) on banana bunch (KVK Siddharthnagar)

Technology Assessed (as the case may be): Management of fruit scarring beetle in Banana

Banana is an important cash crop of district siddharthnagar. KVK Sohna, Siddharthnagar conducted an OFT to assess the bunch bag to manage fruit scarring beetle in banana to enhance yield and quality of banana. Results revealed that bunch bagging of banana significantly minimum fruit damage by scarring beetle (1.75%) and higher fruit yield (607.94 q/ha) over farmer's practice. Bunch bagging of banana gave 24.71 % higher yield with best quality banana fruits over farmer practice.

Effect of bunch bagging on yield and quality of banana.

Technology Option	No. of trials	Fruit damage by Scarring beetle (%) (as mentioned in the approved action plan 2024)	Days of bunch maturity	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
T1-No bunch bagging of banana	5	98.20	117	487.50	-	350000	703750	2.92
T2-Bunch bagging of banana		1.75	106	607.94	24.71	380000	1018262	3.67

*Sale price of banana T₁- Rs. 2100/- and T₂: Rs. 2300/q



Problem: Heavy infestation of Fruit and shoot borer (KVK Kanpur Dehat)

Title: Management of fruit and Shoot borer in Brinjal

Brinjal Fruit and Shoot Borer (BFSB) is a very dangerous pest of brinjal. It not only reduces the yield by making holes in shoots as well as in fruits but also reduces the aesthetic value of the fruits so loss gets doubled. It is a monophagous pest feeds only on Brinjal. The normal control measures like spraying of pesticides does not solve the problem instead making the environment polluted, ecological disturbance and vegetable poisoning. Mass Trapping of adult male moths using pheromones in fields along with ranaxypyr were tested against fruit and shoot borer in Brinjal crop.

Technology Option	No. of Trials	No. of trapped moth	No. of fruit and shoot borer affected / m ²	Control %	Yield (q/ha)	Increase in yield in %	Gross Cost (Rs)	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
Kashi Sandesh + Cypermethrin 10% EC @ 1.5 lit/ha	5	0	14	77.78	307.5	0	76600	239850.0	163250.0	3.13
Kashi Sandesh Feromon Trap @ 14/ ha + Rynaxypyr 18.5 SC @ 0.4 ml/ of water		169 moth/ha	15	91.50	376.5	22.43	78500	293670.0	215170.0	3.74

Problem – Low productivity of potato due to late blight of potato

Table: Assessment of effect of fungicide

Technology assessed/Refined	No. of trials	Yields (q/ha)	Increase in yield	Disease Infestation%	Net Return	B:C Ratio
T ₁ - Farmers practice (no use of fungicide)	03	255	-	30	57500	1.67
T ₂ - Use of seed treatment 1 gm /lt water + Beldamy-cine concentration @2gm/lt of water spraying 30-45 days of 2 spray interval		314	23.13	9	67200	1.76

Result –Use of fungicide in seed treatment 1 gm /lt water willildamycine concentration@2gm/lt of water spraying 30-45 days of 2 spray interval in potato mosaic infestation was lowest resulting in B:C ratio of 1.67



Problem definition: Black scurf disease causing poor appearance and quality and resulting low income of potato. (KVK Etawah)

Technology Assessed: Management of black scurf disease of potato.

Performance of fungicides on yield and disease management of potato.

Technology Option	Emergence at 15 DAS	Infected tubers (%)	Yield (q/ha)	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Seed treatment with (Azoxystrobin @ 1.00 l per ha seed)	22.50	13.25	310.25	83500	248200	164700	2.97
Seed treatment through Penflufen	25.45	8.40	320.45	83800	256360	172560	3.06

Seed treatment with Penflufen @ 250 ml / ha was found very effective in enhancing yield of potato by 11.97 % and additional net returns Rs. 24616 /ha over farmers practice. Thifluzamide @ 750 ml/ha also increased tuber yield by 8.41% over farmer's practice.

Problem definition: Low yield of Paddy due to bacterial leaf blight disease (KVK-I Muzaffarnagar)

Technology Refined : To increase the Production potential through management of bacterial leaf blight disease in paddy crop.

Paddy is an important kharif Cereal crop of western UP. However there is high incidence of bacterial leaf blight disease in Paddy crop, resulting in yield loss. Therefore, On farm trials conducted at farmers field on five locations to refine chemical control measure. The refined technology of foliar application of Copper-oxichloride 50% WP @1.25 Kg/Ha + Streptocyclin 24gm/ Ha was used to reduce the incidence of bacterial leaf blight disease in Paddy crop .

Effect of Copper-oxichloride 50% WP @1.25 Kg/Ha + Streptocyclin 24gm/ Ha to control the incidence of bacterial leaf blight disease in Paddy crop

Technology Option	No. of trials	Yield q/ha	Increase in Yield (%)	Stem Borer Infestation %	B:C Ratio
T1- Farmers Practice (Use of carbendazim 50%WP @ 1Kg/Ha)	05	40.26	--	18%	1.43 : 1
T2- Seed Treatment + foliar application of Copper-oxichloride 50% WP @1.25 Kg/Ha + Streptocyclin 24gm/ Ha		49.70	23.4	4.5%	1.89 : 1

Result :

1. Foliar application of Copper-oxichloride 50% WP @1.25 Kg/Ha + Streptocyclin 24gm/ Ha was found effective to control the bacterial leaf blight disease in Paddy crop.
2. 13.5% Less incidence of disease seen in demo. field as compared to check plot.
3. Economically it is beneficial technique .



Problem definition: High sucking pest infestation due to Poor Pest Defender Ratio (10:1): KVK-II Sitapur

Technology Assessed Major sucking pest Thrips & Leaf hoppers management Groundnut

Groundnut is an important crop of Sitapur District. However, there is high incidence of Thrips and Leaf Harper sucking pest resulting in yield loss. An on farm trial has been conducted to asses the impact of EcologicalEngineering method for sucking pest management in groundnut. The results revealed that bordered crop with 4 dense row of maize followed by single row of sunflower and 2 spray of neem oil 3000ppm at 20DAS & 45 DAS reduces pest incidence >50% compared to control and increase in C:B reatio 1: 3.11 compared to control i.e 1: 2.79.

Effect of Ecological engineering in groundnut on control of Thrips & Leaf hoppers

Technology Option	No. of Trial	Groundnut Production q/Ha	Increase in yield compared to farmers practices q/ Ha	Advantage on parameters		Yield (t/ha)	Net Income	C:B Ratio
				Thrips population / Plant at 30 DAS & 60 DAS	Leaf Hoppers population / Plant at 30 DAS & 60 DAS			
T1: Farmers Practices – Imidacloprid 17.8% SL @ 0.5Lit/ Ha	05	16.87	2.55	8 & 10 (9)	3 & 9 (6)	101220	64970	1: 2.79
T2:Bordered crop with 4 Dense Row of Maize + single row of Sunflower + two spray of Neem oil 3000 ppm @ 2ml/ lit water + detergent at 20 DAS & 45 DAS		19.42		2 & 6 (4)	2 & 4 (3)	116520	79120	1: 3.11

Problem definition: Low yield of Rice due to heavy infestation of stem borer in Rice (KVK Siddharthnagar)

Technology Assessed (as the case may be): Management of Stem Borer (*Scirpophaga incertulas*) in Scented Rice (kalanamak)

Scented Rice (kalanamak) is an important commercial crop of district siddharthnagar. However, there is high infestation of stem bore of resulting in yield loss. KVK conducted on-farm trial to Management of Stem Borer (*Scirpophaga incertulas*) in Scented Rice (kalanamak) the control measure. The refined technology of Pheromone trap (Lure- *Scirpophaga incertulas*) + Light Trap reduced the percentage of insect infestation from 17 to 3 and yield was increased by 15.71 per cent.

Management of Stem Borer (*Scirpophaga incertulas*) in Scented Rice (kalanamak)

Technology Option	No. of trials	infested Panicles (m ⁻²) (as mentioned in the approved action plan 2024)	Loss of damage (%)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs/ha)	Net Return (Rs./ha)	B:C Ratio
T ₁ -farmer practices	5	17	15.71	35.00	-	36500	105500	2.89
T ₂ - Pheromone trap (Lure- <i>Scirpophaga incertulas</i>) + Light Trap		3		40.50	15.71	38500	123500	3.20

Sale price-Rs. 4000/qt.



RESOURCE CONSERVATION TECHNOLOGY

Problem definition: Burning of crop residue of sugarcane after harvesting of sugarcane crop (KVK-I Gonda)

Technology Assessed (as the case may be): Use of Rotary mulcher for crop residue management of sugarcane crop and sowing of wheat after field preparation.

KVK, Gonda (UP) conducted on farm trial to find out the yield performance, cost saving, water saving and stop burning after use of rotary mulcher in sugarcane field. The yield enhance 5.22 %, Net return Rs. 37135.0/ha., water saving and farmers aware about crop residue management instead of burning of sugarcane leaves.

Performance of Rotary mulcher for crop residue management of sugarcane crop and yield of wheat crop.

Technology Option	No. of trials	Major parameter	Results of indicators/ parameter)	Advantage (%) on parameters	Yield (t/ha)	Gross cost (Rs/ha)	Net Returns (Rs./ha)	B:C Ratio
Farmer practice- Sowing of wheat after burning of crop residue of sugarcane.	5	Weed control (no. /sqm)	146	-	36.35		33530.0	1.42
		No. of irrigation	4					

Recommended practice- Sowing of wheat after crop residue management of sugarcane crop through rotary mulcher.		Weed control (no. /sqm) No. of irrigation	45 3	5.22	38.25		37135.0	1.86
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Feedback :-

1. Use of rotary mulcher is suitable for crop residue management.
2. It is better for in situ moisture conservation and enhance in biomass production.
3. It was observed that wheat seed germination was 2-3 days earlier in this field than general sowing of wheat.

Problem definition: Lower productivity of cucumber in off season (KVK Bareilly)

Technology assessed or refined (as the case may be): Assessment of low tunnel technology for off season cucumber cultivation.

KVK Bareilly conducted on farm trial at the five farmer's field. The seed was sown in Dec. 2023-January 2024 and crop was harvested in April 2024.

Yield and income of Cucumber in Low tunnel poly house

Technology Option	No. of trials	No. of fruits per vine	Yield (Q/ha)	% increase in yield	Cost of Cultivation Rs/ha	Gross Income Rs/ha	Net Income Rs/ha	B:C
T1-Cultivation of cucumber in open field condition (Farmers Practice)	5	2.78	67.80	-	64000/-	135600/-	71600/-	2.12:1.0
T2 Cultivation of cucumber crop in low tunnel poly house. (Recommended Practice)		4.02	105.50	55.60	108000/-	316500	208500/-	2.93:1.0

Farmers' Reaction: Farmers were very happy to see the results of this OFT trial as this is a low cost technology and very effective to grow cucumber very early even in December-January. As a result farmers able to sale produce @Rs 3000/ q which enhanced their benefit cost ratio from 2.12 to 2.93.

LIVESTOCK**Problem definition: Low production of fish due to unmanaged water and soil quality Technology Assessed (KVK Jaunpur-I)**

Krishi Vigyan Kendra, Buxa, Jaunpur-I has conducted trials for managing soil and water quality in fish farming practices, applying soil and water probiotics. As a result, it has been reported that the trial of soil and water probiotics will enhance the soil and water quality of ponds. Subsequently, productivity, like concentration of plankton, pH, etc. of water is within the desired limit. Ultimately, the growth of fish has been boosted.

Effect of soil and water probiotics

Technology Option	No. of Trials	Water pH	Soil pH	Water depth (Mtr.)	Total alkalinity (mg/L as CaCO ₃)	Total hardness (mg/L as CaCO ₃)	Concentration of plankton (no./l) in lakh	Production n (Ton)	% change in Production	Cost of Cultivation (Rs/ha.)	Gross Return (Rs/ha.)	Net Income (Rs/ha.)	B:C Ratio
Using only lime and cow dung	5	7.1 -	6.8 -	4.5 -	120 -	150 -	1.4 -	1.60	-	60500	336000	195500	4.23
Use of water probiotics @ 1.25 kg/ha of pond		8.2 -	7.6 -	5.0 -	142 -	260 -	2.1 -	2.10	31.25	68650	256000	267350	4.89

Problem - Low milk production in Cow due to negative energy balance (KVK Fatehpur)

Technology accessed/ refined - Assessment of effect of by pass fat for improvement in milk yield.

Technology option	No. of trials	Avg milk yield (kg/day)	Increase in yield (%)	Net return (Rs/year)	BR ratio
T1- Farmers practice (Not fed bypass fat, not regular deworming)	5	7.00	-	2960.00	1.41
T2- Bypass fat 100gm/day after deworming with 1bolus Fenbendazole + Ivermectin once		9.90	29.29	5615.00	1.89

Result -Feeding of bypass fat to milch cows with per day dose of 100 gram after deworming with Fenbedazole + Ivermectin combination results in better average milk yield in T2 that was 9.90 kg per day with 29.29% increase from farmers practice (T1)and net return RS. 5615 per year and BCR 1.89



Problem definition: Mortality of Buffalo calves due to endo-parasites and improper feeding of colostrums (KVK Etawah)

Technology Assessed or Refined (as the case may be): Effect of dewormer and proper feeding of colostrums in newly born calves.

Mortality of newly born buffalo calves is major problem occurred in district Etawah. Regarding this problem KVK Etawah was conducted a trial on 10 newly born buffalo calves. The result indicated that the use of dewormer Albendazole @ 1.0 ml per Kg. body weight given in 4 dose at the time 5, 25, 60 and 90 days and proper feeding of colostrums gave no mortality over farmers practices.

Effect of dewormer and proper feeding of colostrums in newly born calves

Technology Option	No. of trials	Per cent of mortality of calves
Farmer practice (No use of dewormer and improper feeding of colostrum)	10	12
Albendazole @ 1.0 ml per Kg body weight given in 4 dose at the time 5, 25, 60 and 90 days and proper feeding of colostrums		Nil

Problem definition: Low Milk Yield and high incidence of Metabolic disease (KVK Unnao)

Technology Assessed: Assessment of Bypass Fat Feeding on Milk yield and its composition Quality and Metabolic Disease Incidence in Transition phase of Lactating Crossbred Cows

KVK, Unnao conducted 20 trial to find out suitable control measure for metabolic disease incidents and increasing milk production in crossbreed cows. The results revealed that the milk yield, fat percent, SNF, and Total solid were higher in Treated animals as compare to farmers' practices and the metabolic disease incidence was reduced in treated group. It is concluded that supplementation of Bypass fat was found superior as compare to farmers' practices as well as effective economics return and more adoptable to farmers.

Milk yield, its composition and Metabolic Disease Incidence

Technology Option	No. of Animal treated	Milk Yield (Kg/day)	Milk composition			Metabolic Disease Incidence		
			Fat %	SNF%	Total Solid %	Milk fewer (nos.)	Ketosis (nos.)	Retained placenta (nos.)
T1: Farmer Practices (Mustard cake, Bran, Straw and Fodder)	10	7.12	3.14	8.58	11.72	4	2	3
T2: Farmer Practices along with Bypass Fat Feeding @ 100 gm per liter per day per animal for 45 Days	10	8.25	4.22	8.86	13.08	2	0	1

Economics and Social Adoptability

Technology Option	No. of Animal treated	Economics				Social Adoptability
		Cost (Rs./day)	Gross return (Rs./day)	Net return (Rs./day)	BCR	
T1: Farmer Practices (Mustard cake, Bran, Straw and Fodder)	10	145.25	256.32	111.07	1.76:1	69
T2: Farmer Practices along with Bypass Fat Feeding @ 100 gm per liter per day per animal for 45 Days	10	171.25*	370.42	199.17	2.16:1	

*Rs 26/- more cost with Bypass fat supplement

Problem definition: Poor management practices during peri-parturient periods in buffalo (KVK-I Muzaffarnagar)

Technology Assessed : Use of Metabolite mixture @ 100gm/day/animal during transition period

KVK, Muzaffarnagar-I conducted trial to find out suitable control measure for peri-parturient problems in buffalo .The technology recommended was Use of Metabolite mixture for the control of peri-parturient problems in buffalo.

Effect of Metabolite mixture in buffalo during transition phase

Technology Option	No. of trials	Major parameter	Incidence of post parturient problem (%)	Service period (days)	Conception rate
T1- Farmers Practice (Common salt)	10	Post partum problem	40%	140	40(4/10)
T2- uses of metabolite mixture @ 100gm/day/animal	10		10%	116	50(5/10)

Result: Farmer practice – Three animals suffered for ROP & One buffalo suffered from milk fever .
Recommended practice – Only one animals suffered from saran (MPD) disease

Problem definition: Higher incidence of repeat breeding in dairy buffalo (KVK Bareilly)

Technology assessed or Refined (as the case may be): Management of repeat breeding in dairy buffalo.

Higher incidence of repeat breeding in dairy buffalo of Lakhampur, Byodha and Simra Ajum Begum Village were observed during Rapid rural appraisal conducted by the KVK, Bareilly in the year 2023-24. In view of this, a trial on management of repeat breeding in dairy buffalo started in the month of Oct. 2024 at the field of 10 farmers. Under this trial, KVK provided technical support to the participating farmers as per recommendation.

Performance of repeat breeding dairy buffalo under the trial

Technology Option	No. of trials	Non return rate (%)	Conception rate (%)	Calving to Conception Interval (days)
T1: Farmers practice: Use of choker, broken wheat and mustard cake	10	40	20	-
T2: Dewormer + Use of Feed Supplement (Trace mineral) @50 gm/day/ Animal for 3 months + Hormonal treatment if needed		60	40	394

Farmer's Reaction: Farmers actively participated in the trial and were happy to observe improvement in health, production and reproductive performance of animal.

FARM MACHINERY

Problem definition: Burning of crop residue for timely sowing of wheat (KVK-II Hardoi)

Technology Assessed or Refined (as the case may be) : In-situ paddy residue management for soil health and crop yield

KVK (ICAR-CSSRI-RRS) Hardoi II conducted an On Farm Trial on In-situ paddy residue management for soil health and crop yield at five farmer's field. In trial one the Wheat variety HUW 234 was sown as a farmer's practice while in trial II Salt tolerant variety of Wheat KRL 283 with in situ crop residue management by use of halo CRD and sowing of wheat by super seeder practices was used. In trial one the Wheat variety HUW 234 was sown as a farmer's practice while in trial-2, Salt tolerant variety of Wheat KRL 283 which gave higher yield over farmer's practice i.e., 50.01 q/ha which was more than farmer's practice i.e., 28.18q/ha. BCR from trial-2 was also higher i.e., 2.65 than trial -1 i.e., 1.19.

Soil status of the trial before sowing

Parameters of soil	Soil texture	pH (2.5:1)	E.C. (mS/cm)	O.C. Per cent	Available						
					Kg. per ha.			Mg. per kg. (p.p.m.)			
					N	P	K	S	Zn	Fe	B Mn
Values	Sandy loam to Clay loam	8.7-10.5	0.50-0.65	0.2-0.3	100-150	9.5-10.75	255-269	-	-	-	- -

Performance at farmers field (KRL 283)

Technological Options	Number of Farmers	Yield(q/ha)	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	Net Return (Rs./ha)	BCR (Rs/Rs)
T ₀ Burning of crop residue for timely sowing of wheat by rotavator (HUW 234).	05	28.18	62500	74109.5	11609.5	1.19
T ₁ Use of Halo CRD then sowing of Wheat (KRL 283) by Happy seeder or super seeder or zero till machine		50.01	50400	133,772.75	83372.75	2.65

WOMENT EMPOWERMENT

Problems identified: Low Nutritional Status and malnutrition of farm Women (KVK GB Nagar)

Thematic area: Nutritional Security

Technology assessed: Assessment of the effective supplementation of fortified wheat flour(75%) + Gram Flour (20%) + Barley Flour (5%) for 180 days to farm women for improvement of nutritional status of Farm Women through Fortified wheat flour.

Physical Parameters

Techno logy	No. of Trials	Consumpti on (Gram)	Availability / year (Days)	Hb level (g/dl)		Perceived rate of Exertion (%)			Height	Weight	BMI
				Before Intervention	After Intervention	Low	Medium	High			
T ₁	05	350 gram / day	180 days	9.76	-				152.6	50.2	21.48
T ₂			180 days	-	10.94	✓	✓		152.6	53.4	22.86

T₁: Framer's common practice (Use of Wheat flour only)

T₂: Fortified wheat flour (75%) + Gram Flour (20%) + Barley Flour (5%) for 180 days to farm women (Sedentary worker)

Before Intervention



Weight Measurement of Farm Women for the assessment of their Nutritional Status



Height Measurement of Farm Women for the Assessment of their Nutritional Status



Hemoglobin Estimation of farm women for the Assessment of their Nutritional Status



Input distribution for fortification of wheat flour with gram Flour and barley Flour

After Intervention for 6 Months



Height & Weight Measurement of Farm Women for the assessment of their Nutritional Status



Hemoglobin estimation of farm women for the Assessment of their Nutritional Status



1. Nutritional Parameter

Treatment	Composition	Requirement gm/day	Nutritional Value full filled							Impact on Health status	
			Energy (Kcal)	Protein (gm)	Fat (gm)	CHO (gm)	Crude Fiber (g)	Ca (mg)	Iron (mg)	General health	Disease occurrence
T ₁	Only wheat flour (100%)	350.00	1193.5	42.35	5.95	242.9	6.65	168.00	17.15	Lack of Hemoglobin	Anemia (03 anemic)
T ₂	Wheat 75 %	262.5	895.13	31.76	4.46	182.18	4.99	126.00	12.90	Hemoglobin level increased	
	Gram flour 20%	70.00	224.70	15.40	0.35	40.04	3.71	200.90	4.74		
	Barley 5%	17.50	58.80	2.01	0.23	12.18	0.68	4.60	0.63		
	Total 100%	350.00	1178.63	49.17	5.04	234.40	9.38	331.5	18.27		

Source : Nutritive Value of Indian Foods, National Institute of Nutrition, ICMR, Hyderabad

2. Sensory Parameter

Technology Option	Sensory Parameter Score (9 Point Hedonic Scale)				
	Taste	Flavour	Colour	Texture	Overall Acceptability
T1- Farmers practice	Like extremely	Like moderately	Like extremely	Smooth	Like moderately
T2 -Fortified flour	Likemoderately	Like extremely	Likemoderately	Rough	Like extremely

Recommendation:

After the intervention of fortified flour (along with Vit. C rich food such as Aonla or Lemon) for 06 months there was increase in the hemoglobin level. The daily consumption of Protein, Calcium and Fibre was also increased. Hence, we recommend the selected dose for the women suffering from low Hb level.

Feed Back

- Feed consumption increased, leading to less feed wastage, fish active and fast growth. No sign of any disease.
- Advisory visit to farmers pond reveal improvement in physical and chemical water parameters.

WEED MANAGEMENT

Problem definition: Heavy infestation of weed in wheat. (KVK Mau)

Technology Assessed Weed control measures on wheat cultivation in Mau district of Uttar Pradesh

KVK Mau took up on-farm trial on chemical weed management in wheat. The results indicated that the use of MesoSulphuron Effect of MesoSulphuron Methyle 3%+ IdoSulphuron Methyle Sodium 0.6% w.g. (Atlantis) on weed control and yield of wheat Methyle 3%+ IdoSulphuron Methyle Sodium 0.6% w.g. (Atlantis) increase in yield over farmer practice.

Effect of MesoSulphuron Methyle 3%+ IdoSulphuron Methyle Sodium 0.6% w.g. (Atlantis) on weed control and yield of wheat

Technology Option	No. of trials	Major parameter	Results of indicators/parameter)	Advantage (%) on parameters	Yield (qt/ha)	Increase in yield (%)	Gross cost (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Using post emergence herbicide sulfosulfuran (Farmers Practice)	05	No. of weeds per m ²	15	-	34.20	--	27572	45103	2.63
MesoSulphuron Methyle 3%+ IdoSulphuron Methyle Sodium 0.6% w.g. (Atlantis). Dose 400g/ha			8	46.66	39.45	15.35	29705	54126	2.82

Source of Technology: ICAR- Directorate of Weed Research, Jabalpur

Weeds: Phalaris Minr, Chenopodium Album etc.



Problem definition: Heavy infestation of weeds causes competition with main crop and reduces the crop yield drastically. (KVK GB Nagar)

Technology Assessed: To assess the effect of different weedicide for weed management in transplanted rice.

Technology Option	No. of trials	Weed density (No. of weeds/m ²)		No. of effective tillers/plant	Yield (qt/ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
		30 DAT	45 DAT					
T ₁ - Bis-pyribac Sodium 10% @ 250 ml/ha	10	24	12	8	30.0	-	42700	1.6:1
T ₂ - Trifamone 20% + Ethoxy sulfuron 10% WG @ 90g/ha.		21	9	11	32.0	6.67	51030	1.7:1
T ₃ - Bis-pyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Met-sulfuron Methyl 2.5% (w/w) WG @ 100g/ha		20	8	12	33.2	10.67	54970	1.7:1

Selling price – Rs. 3600/q, **Cost of production** under T₁ – Rs 75300.00, T₂ – Rs 76170.00 & T₃ – Rs 76550.00

Variety – PB-1121 and PB-1718

Major Weeds - Echinochloa colona, Echinochloa crusgalli, Fimbristylis milliacea, Cyprus rotendus, Cyprus difformis, Marsilea quadrifolia etc

KVK conducted an on farm trial to assess the different weedicide for weed management in transplanted rice and their effect of weed control of different weed flora. The application of different post emergence weedicide shows clearcut fact on weed control. Bis-pyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Met-sulfuron Methyl 2.5% (w/w) WG @ 100g/ha found most effective to control all the weed flora except Baal grass.



Farmer Practice (Bis-pyribac Sodium 10% @ 250 ml/ha)



Bis-pyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Met-sulfuron Methyl 2.5% (w/w) WG @ 100g/ha

Problem definition: Low yield of rice due to heavy infestation of weeds in transplanted rice (KVK Bareilly)

Technology Assessed (as the case may be): Weed management in transplanted rice using chemical method.

KVKs of Bareilly evaluated the efficiency of different herbicides and herbicide mixture through on-farm trial on weed management in transplanted rice using chemical methods during the kharif season in 2024 at farmers field. OFT result shows that application of triflurothoxy 20% + ethoxysulfuron 10% WG @ 90g/ha and bispyribac sodium 38% + chlorimuron ethyl 2.5% + metsulfuron methyl 2.5% WG @ 100g/ha (DAT) increase the grain yield by 15.34% and 24.47%, respectively compared to Farmers Practices.

Table: Effect of Bispyribac sodium salt 38% + Chlorimuron ethyl 2.5% + Metsulfuron methyl 2.5% (W/W @ 100g/ha)

Technology Option	No. of trials	Yield (qt/ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
T1: Bis-pyribac Sodium 10% @ 200-250 ml/ha (FP)	05	47.12	--	41426	1.61
T2: Triflurothoxy 20% + Ethoxysulfuron 10% WG @ 90g/ha.		54.35	15.34	54755	1.77
T3: Bispyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Metsulfuron Methyl 2.5% (w/w) WG @ 100g/ha		58.65	24.47	64110	1.92

Economics details

Treatments	No. of Replications	Production (q/ha)	Cost of Cultivation (Rs./ha)	Gross Income (Rs./ha)	Net Income (Rs./ha)	B:C Ratio
T1: Bis-pyribac Sodium 10% @ 200-250 ml/ha (FP)	5	47.12	66950	108376	41426	1.61
T2: Triflurothoxy 20% + Ethoxysulfuron 10% WG @ 90g/ha.		54.35	70250	125005	54755	1.77
T3: Bispyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Metsulfuron Methyl 2.5% (w/w) WG @ 100g/ha		58.65	69290	133400	64110	1.92

Farmer's feedback: Farmers were satisfied with the result of T3 as compare to T2 & T1. Thus the results shows increase in yield from 15.34 (T2) to 24.47 (T3) as compare to farmers practices (T3).

SOIL HEALTH

Problem definition: Low yield of Wheat in salt affected soil (KVK Mau)

Technology Assessed: Evaluation the effect of Halophilic Bio Formulation (Halo Azo, Halo PSB & Halo Zinc) in Wheat and soil health.

KVK Pilkhi, Mau conducted trial on Halophilic Bio Formulation (Halo Azo, Halo PSB & Halo Zinc) in Wheat and soil health.

Effect of Bio formulation on soil health

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs./ha)	B:C Ratio
No use of Bio formulation (Farmers Practice)	5	42.7	-	33122	82197	49075	2.48
Use of Bio Formulation (Halo Azo, Halo PSB & Halo Zinc)		44.3	3.74	32450	85277	52827	2.62

Source of Technology: CSSRI, Karnal, Regional Station Lucknow



INTEGRATED PEST MANAGEMENT

Problem: Heavy infestation of false smut in paddy (KVK Maharajganj)

Technology Assessed: False smut in Rice

Rice is a main cereal crop of Maharajganj in kharif. However, 20-25% yields loss due to high incidence of false smut disease in paddy crop. KVK Maharajganj conducted on-farm trial to assess the suitable control measure to minimize the incidence of false smut. The technology of seed treatment with Application of Azoxystrobin 11% + Tebuconazole 18.3% w/w SC stage @ 1.0 ml at panicle initiation stage reduced the percentage of disease incidence from 4 to 5 time and yield was increased by 25.41 per cent.

Crop	Technology Demonstrated	No. of trials	Technology Option	Incidence of smut (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Gross Return (INR/ha)	Net Return (INR/ha)	B:C Ratio
Rice	Management of False smut	5	T ₁ - No Spray of (Farmers Practice)	20	36.20	--	83260	30810	1.58
			T ₂ -: Application of Azoxystrobin 11% + Tebuconazole 18.3% w/w SC stage @ 1.0 ml/lit at panicle initiation stage	5.6	45.40	25.41	104420	52420	1.99

Problem definition: Low fertility status of soil due to low microbial activities in saline soils (KVK Mathura)

Technology assessed or refined (as the case may be): Performance of Hello Mix Bioformulation developed by RRS-CSSRI Lucknow.

KVK, Mathura U.P. conducted on-farm trial to find out the Hello Mix Bioformulation developed by RRS-CSSRI Lucknow was tested in saline soil. The result showed that in paddy variety PB 1509 gave 9.0 % more yield over local check which recorded 49.60 q./ha yield.

Table Performance of Hello Mix Bioformulation developed by RRS-CSSRI Lucknow

Technology Option	No. of trials	Yield (q./ha)	Increase in Yield (%)	Net return	B:C Ratio
T1-Farmers practice: Farmer Practice	5	45.50	-	76150	1.63
T2-Use of Hello Mix Bioformulation		49.60	9.0	86950	1.85

Using Hello Mix Bioformulation in rice crop found better yield over the farmers practice that gave not only higher yield of 9.0% but also found very good for saline soils.

Problem definition: High cost of Production and low organic carbon in soil (KVK Mathura)

Technology Assessed or Refined: Soil Health improvement and quality of Wheat grain.

KVK, Allahabad conducted OFTs on Natural Farming in Wheat crop. The result indicated that the use of (Beejamrit, Ghanjeevamrit and Jeevamrit) given in below

Performance of Natural Farming inputs in wheat

Technology Option	No. of trials	Yield (q/ha)	Yield Increase (%)	Cost of cultivation (Rs/ha)	Gross Returns (Rs/ha)	Net Returns (Rs/ha)	B:C Ratio
T1-Farmer Practice Conventional (Use of Chemical Fertilizer)	5	27.6	-	33600	62790	29190	1.86:1
T2-Natural Farming (Use of Natural Farming inputs - Beejamrit, Jeevamrit, & Ghanjeevamrit, etc.		20.8	-24.64	29720	47320	17600	1.59:1

TECHNOLOGY ASSESSMENT



OFT on Potato: KVK Hathrus



OFT on livestock: KVK Bareilly



Assessment of Blast disease on paddy and fruit drop management in mango: KVK Kushinagar



Assessment of Tomato Var –Arka Abhed and Cowpea var K. Gauri : KVK-II Lakhimpur Kheri



OFT- pigeon pea sowing on ridge bed technique: KVK Ayodhya

Chapter-5

EXTENSION PROGRAMMES

Extension programs are one of the important mandated activities are carried out by the KVKs of Uttar Pradesh. In all 48,141 extension activities with 25.79 lakh beneficiaries, 56633 mass communication extension activities, 79811 mobile advisories through text and voice for 22.29 lakh farmers, 31723 soil samples covering 43666 farmers, 2571 technology week celebrations with 4.31 lakh beneficiaries, 53 trainings under rain water harvesting & micro irrigation system with 4993 beneficiaries have been reported. (Table-5.1)

Table-5.1: Physical achievement of extension programmes

S.No.	Programmes	Number	Beneficiaries
1	Extension activities	48,141	25,79,006
2	Other extension programs(mass communication)	56,633	mass
3	Mobile advisories	79,811	22,29,105
4	Soil samples	31723	43666
5	Technology week celebrations	2571	431000
6	Trainings and Demonstrations under Rain Water Harvesting & Micro Irrigation System	53	4993
Total		908719	3710557

5.1 Extension Activities

An agricultural extension service provides technical aid to farmers on any agricultural issues. These activities are supposed to provide them with the essential inputs and services that support and increase their agricultural production. New ideas and techniques developed by the agricultural scientific research centres are dispersed among the farmers by the agricultural extension activities. A large number of extension activities (48141) were organized for 2579006 farmers and extension personnel by KVKs of Uttar Pradesh. The major activities like advisory service (19617), diagnostic visits (4422), field days (962), group discussions (810), kisan gosthies (1675) film shows (485), self help groups 348), kisan mela (348), exhibitions (495), scientist visit (8610), plant/animal health camps (498), farm science clubs (172), ex-trainees meet (147), farmers' seminars (332), method demonstrations (510), celebrations of important days (596), special days celebration (1471), exposure visits (452) with the participation of 24,83,236 farmers and 47,629 extension personnel were benefitted. (Table-5.2)

Table-5.2: Extension activities conducted in KVKs of Uttar Pradesh

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total (farmer+ Extn. Personnel)	No of KVKs
Advisory Services	19,617	8,26,583	7,280	8,53,480	84
Diagnostic visits	4,422	37,010	1,511	42,943	84
Field Day	962	29,697	1,213	31,872	85
Group discussions	810	16,494	1,103	18,407	76
Kisan Ghosthi	1,675	1,82,288	6,838	1,90,801	88

Film Show	485	26,413	740	27,638	54
Self -help groups	348	8,425	430	9,203	62
Kisan Mela	348	2,04,241	6,028	2,10,617	78
Exhibition	495	1,99,829	5,233	2,05,557	77
Scientists' visit to farmers field	8,610	76,856	2,039	87,505	88
Plant/animal health camps	498	13,360	455	14,313	55
Farm Science Club	172	2,838	79	3,089	26
Ex-trainees Sammelan	147	8,750	287	9,184	40
Farmers' seminar/ workshop	332	18,504	974	19,810	56
Method Demonstrations	510	12,458	475	13,443	67
Celebration of important days	596	53,319	2,564	56,479	86
Special day celebration	1,471	40,521	2,952	44,944	83
Exposure visits	452	16,442	750	17,644	66
Others	6,191	7,09,208	6,678	7,22,077	63
Total	48,141	24,83,236	47,629	25,79,006	89

5.2 Other Extension activities

To a large extent, mass media serves as a veritable instrument for information dissemination in agriculture. Agricultural extension/information delivery is precisely a process of communication of improved skills, practices, innovations, technologies and knowledge to farmers. For the purpose, KVKs of Uttar Pradesh has organized other extension activities (56633) also. The major activities like electronic media (285), extension literature (39226), news paper coverage (8688), popular articles (869), radio talks (309), and TV talks (241), Animal health camps (6793) were performed.

Table-5.3: Other mass communication activities conducted in KVKs of Uttar Pradesh

S. No.	Particulars	Number	No. of KVKs
1	Electronic Media (CD./DVD)	285	89
2	Extension Literature	39,226	68
3	News paper coverage	8,688	89
4	Popular articles	869	73
5	Radio Talks	309	61
6	TV Talks	241	53
7	Animal health camps (No. of animals treated)	6,793	41
8	Others	222	30
	Total	56,633	89

5.3 Kisan Mobile Advisory Services

Kisan Mobile Advisory Services (KMAS) are delivering information for the farming community of the state by harnessing the information and communication technology based mobile networks. It is one such tool where the information is reach at a stroke of a mouse click, and enables the farmer to have information access and face the challenges ahead of them. The aim is to provide timely quality need based information on various topics and context of agriculture and allied sector in the right quantity and right form thus empowering the farmers with information and improving their decision making ability. The delivered information is location-specific and crop or enterprise specific. Information is delivered to the registered farmers of the state through mobile Short Message Services (SMS). During the period under report, KMAS were given by KVKs with 51560 text messages, 28251 voice messages and 79811 text including voice to 2229105 farmers. (Table-5.3)

Table-5.3: Physical achievement of Kisan Mobile Advisory Services provided to farmers

Type of Messages	No. of Text messages sent	No. of voice messages sent	no. of Text+Voice messages sent both	No. of farmers benefitted
Crop	25,209	15,787	32,321	11,74,534
Livestock	2,863	3,351	3,399	2,38,806
weather	11,317	840	1,431	3,21,389
Marketing	2,089	1,879	2,670	1,49,308
Awareness	3,809	3,446	5,023	2,49,950
Other enterprise	6,273	2,948	7,867	95,118
Total	51,560	28,251	79,811	22,29,105

5.4 Other Extension Programmes

5.4.1 Soil, water and plant samples analysis/SHC

Soil analysis gives valuable information, essential for soil quality improvement. By tracking the exact amount of soil nutrients, a farmer can easily adjust fertilization in accordance with soil and crop requirements. In all, 31723 samples of soils, water (278), plant/manures (30) were analyzed by 55 KVKs. Those samples were collected from 1246 villages and 43666 farmers' fields in Uttar Pradesh.

Soil Health Card (SHC) is used to assess the current status of soil health and when used over time, to determine changes in soil health that are affected by land management. A SHC displays soil health indicators and associated descriptive terms. A total of 30306 Soil Health Cards (SHC) has been issued by the KVKs to farmers for the purpose.

Table 5.4.1: Soil, water, plant and manure analysis by KVKs.

Samples	No. of samples	No. of Farmers	No. of Villages	Amount realized (Rs)	No. of SHC issued to farmers	No. of KVKs
Soil	31402	43426	1136	469219	30290	39
Water	278	197	71	3350	3	8
Plant	30	30	30	-	-	5
Manure	13	13	9	2600	13	3
Total	31723	43666	1246	475169	30306	55

5.4.2 Technology week celebrations

In Uttar Pradesh, 2571 activities were organized by KVKs by benefiting 4.31 lakh farmers. The main activities involved in this program are distribution seeds (983 q), bio-fertilizers (34 q) and bio-products (55.30 q) to farmers and other activities like gosthies (494), lectures (647), exhibition (103), film show (79), Fair (32), farm visits (873), diagnostic practical (343), distribution of literature (14532), distribution of planting materials (3.79 lakh), distribution of fingerlings (2504) and distribution of livestock specimen (257). Details are given in following Table 5.4.2.

Table 5.4.2: Details of Technology week celebrations by KVKs

S.No.	Type Activities	No. of activities	No. of participants	No of KVKs
1	Gosthies	494	36520	42
2	Lectures organised	647	21045	36
3	Exhibition	103	50113	31
4	Film show	79	7105	21
5	Fair	32	18855	19
6	Farm Visit	873	16357	37
7	Diagnostic Practicals	343	5342	29
8	Distribution of Literature (No.)	14532	55344	32
9	Distribution of Seed (q)	983	7502	28
10	Distribution of Planting materials (No.)	379102	159383	33
11	Bio Product distribution (Kg)	5530	1932	17
12	Bio Fertilizers (q)	34	3813	12
13	Distribution of fingerlings	2504	19250	2
14	Distribution of Livestock specimen (No.)	257	172	6
15	Total number of farmers visited the technology week	1030	28267	31
Grand Total		2571 (Activities)	431000	376

5.4.3 Rain water harvesting & micro irrigation system

In total, 34 trainings and 19 demonstrations were conducted and 4830 farmers and 163 officials visited the system also 127360 plant material produced under the zone in context to rain water harvesting and micro irrigation system.

Table 5.4.3: Details of rain water harvesting & micro irrigation system

S.No.	Activities	Number
1	Training Programmes	34
2	Demonstrations	19
3	Plant Materials Produced	127360
4	Visit by Farmers	4830
5	Visit by Officials	163

EXTENSION PROGRAMMES



Exposure visit: KVK Hamirpur



Field Day on Okra (Kashi Chaman): KVK-II Prayagraj



Kisan Mela organised: KVK Aligarh



Visit of Director ATARI to KVK Fatehpur



Animal Camp: KVK Firozabad



Celebration of Ek ped maa ke naam: KVK Firozabad



Diagnostic visit seeing mango tree: KVK Badhoi



PRA Survey: KVK Firozabad

EXTENSION PROGRAMMES



PM Kisan programme: KVK-II Prayagraj



Field day on Vegetable Pea (Kashi Uda) (Kashi Uda)



State Minister at Krishi Exhibition: KVK Deoria



SAC meeting organized: KVK Deoria



Celebration of World Soil Day: KVK Hardoi-II



Exhibition by KVK Hardoi-II



Celebration of Independent Day: KVK Firozabad

EXTENSION PROGRAMMES



AWS Unit visit of farmers Under DAMU Project – KVK Kushinagar



Demonstration on Agri-Drone: KVK Kushinagar



Animal camp and Distribution of Grow Bag & Tarpaulin under SCSP: KVK-II Lakhimpur Kheri



Honble CM of U.P. in Exhibition: KVK Ayodhya



Off campus Krishi Goshties: KVK Agra



Visit of ATARI officials to Goatery unit: KVK Etah



Scientist visit to farmers field: KVK Kaushambi

EXTENSION PROGRAMMES



Millet recipy contest: KVK Sitapur-I



Scietist visit to farmers field: KVK Sitapur-I



Natural Farming awareness programme: KVK Unnao



Gajar Ghas awareness programme: KVK Unnao



PP kit distribution under SCSP-Unnao



Farmers Visit to KVK: KVK Bijour



Swacchata Abhiyan and Exposure visit of farmres : KVK Ghaziabad



Chapter-6

SEED & PLANTING MATERIAL PRODUCTION

KVKs of Uttar Pradesh has given emphasis on production of seeds/seedlings/livestock strains/bio products etc, which are important and suitable for the district by ensuring quality of technological products produced at their instructional farm using revolving fund and supplier to the farmers for large scale promotion of quality seeds/planting materials. Enterprise wise total production of seed (22312.17 q), planting material (39.00 lakh), bio-product (2326.37 q) and livestock strain (54.11 lakh) are shown as below Table-6.1.

Table-6.1: Seed, planting material, bio-product and livestock strain production at a glance

Production type	Quantity	Value in lakh Rs	Procured by the farmers (No.)
Seed Production (q)	22312.17	566.35	21422
Planting material production (Lakh)	39.00	57.91	39589
Bio-product production (q)	2326.37	20.45	571
Livestock (lakh)			
Livestock	0.14	25.24	993
Fisheries	53.97	8.44	773
Total (Livestock strains)	54.11	33.68	1766

6.1 SEED PRODUCTION

Seed production is one of the important activity of KVKs. Any plant part used for raising the crop is seed. Seed include true seed seedling cutting, rhizome, grafts, roots etc used for Propagation. Seed is crucial and basic input to increase crop yields per unit area. Availability of quality seeds of improved cultivars is considered crucial for realizing productivity and adoption of cultivars in different agro-climatic conditions. The quality of seed alone is known to account for at least 10-15% increase in the productivity. However, lack of quality seed continues to be one of the greatest impediments to bridging the vast yield gap. During the year 2024, KVKs of Uttar Pradesh produced 22289.92 q seed of cereals (16866.73 q), pulses (1010.41 q), oilseeds (930.40 q), commercial crops (3049.53 q), fodder (192.70 q), vegetables (154.56 q) and spices (85.59 q).

Table-6.2: Enterprise wise physical achievement of seed production (U.P.)

Enterprise	Quantity (q)	Value (Rs. in lakh)	Procured by farmers (No.)	No. of Villages covered	No. of KVKs
Cereals	16866.72	405.91	9816	822	89
Pulses (Seed Hub)	1010.41	80.76	4104	346	67
Oilseeds	931.20	51.48	6232	551	63
Commercial crops	3049.53	18.87	168	16	12
Fodder/fibre crop	213.25	4.15	208	85	16
Vegetables	155.46	3.20	765.5	37	20
Spices	85.59	1.98	128	43	19
Total	22312.17	566.35	21422	1900	315

6.1.1 Cereals

The KVKs produced 16866.73 q of seeds of cereals as per details given in Table 6.3. The seed of important cereal crops produced included paddy (5790.56 q), wheat (10909.48q), jowar (4.20 q), Bajra (80.35 q), barley (47.59 q), etc. The important wheat varieties included K-1006, PBW 107, K-402, Raj 4120, K-7903, HD-3086, HD-2967, DBW-39, K 1317, H.D-3090, Mandakini, PBW 502, HD-2643, PBW 343, PBW 154, HUW-234, DBW 17, PBW 550, UP 2382, NW-2036, KRL-210, Mahi, Unnat Halna-(K-9423) etc. Important varieties of paddy in seed production programme included JKRH-401, Sava - 127, PR 113, BPT 5204, PB-1509, NDR-2065, Pusa Basmati-1121, Pant Ballabh Dhan -1, HUR-917, HUR-105, Sahbhagi, HUBR 2-14, Shusk Samrat, HUBR 4-3, Sarju-52, Damnni, Mahsuri, Old Kalanamak, DRR 44, DRH-775, Sambha Sub 1, CSR-46, CSR-36, Pusa-2511, PR-113, NDR-3112, AZ 6444 Gold, BH - 21, PB-1121, BH -21, PB 1637 etc. The other crop varieties included; Barley- Mahamana-113 (HUB-113), Maize - DKC-9144, Azad Uttam, African tall, Bio 9544, HQPM-1.

6.1.2 Pulses

The total quantity of pulses seed production was **1010.41** q. The important pulse crops like Field pea (196.56 q), Chick pea (173.01 q), Lentil (241.41q), Pigeon pea (139.39 q), Urdbean 157.79 q), Moongbean (98.75 q) etc were taken up under seed production programme. The important varieties of pulses selected for seed production were chick pea (RVG-202, RVG-203, Ujjwal, Pant Chana -1); pigeon pea (TJT - 501, Prakash -IPA 203, N.A-2, Pant-291); field pea (Prakash, Aman, IPFD 10-12, Rachna, Pusa Prabhat, IPFD 4-9, Aman; lentil - KLB 320, IPL-316, HUL-57, PL 406, PL-08, , Pusa Masoor Ageti); urd bean (PU-40) and mungbean (Virat, IPM 2-3, IPM 2-14, HUM-16, PU 36).

6.1.3 Oilseeds

The KVKs of the zone produced seed **931.20** quintals of oilseeds. The important oilseed crops like Mustard (864.60q), Sesum (41.50 q), Groundnut (7.05 q), Linseed (7.48 q), Toria (3.64 q), etc were taken up under seed production programme. The important varieties of mustard selected for seed production were Pitambari, RH-749, RH 406, Pusa Tarak, PM 30, Pusa Vijay, CS 56, Bayer Mustard 5210, RH 406, NRCHB-101, YSH-0401, PYS-1 etc; Tapeswari, Uttara, etc; Til- Pragati, Mau Azad-1, R.T-351, SHEKHAR, RT351, Tarun etc; linseed- Padmini, LMS 9-2 etc.

6.1.4 Vegetables

The KVKs produced **155.46** q of seeds of vegetables. KVKs produced seeds of important varieties of different vegetables vegetable pea (16.75 q), onion (0.06 q), suran (81.50 q) etc. The important crops were viz. vegetable pea (Arkil, AP 3, Kashi Uday), okra (VRO-6, Ankur-41, VNR 999, Kashi-kranti, Shitla Uphar, Parbhani Kranti, Arka Anamika), Suran (G-1, Gajendra), onion (Pusa red, ADR, N 53, Funsungi, NHRDF Red 3).

6.1.5 Fodder/Fibre crops

The seed of fodder and fibre crops to the tune of **213.25** q was produced in Uttar Pradesh. Berseem (Vardan, JB-2, Shipra), Napier grass, and other fodder crops produced seed of 0.87 q, 1.0 q, and 97.28 q respectively.

6.1.6 Spices

The total quantity of spices seeds produced was 85.59 q. The seeds of different spices were produced viz. turmeric (Megha Haldi 1) 70.00 q and Coriander (4.90 q). The detail spice wise data is given in Table-6.3.

6.1.7 Commercial crops

The total quantity of commercial crop seeds produced was 3049.53 q. The seed production of Sugarcane (2634.49 q), potato (405.25q) and onion bulb (7.80 q) was recorded. The important varieties i.e. Kufari Bahar, Kufri Sutlaj, K. Sinduri, Kashi Kanchan, Kufri Chipsona-3, Kufrikhyati, Chipsona-1 of potato selected for seed production.

Table-6.3: Crop wise seed production (U.P.)

Enterprise	Name of crop	Quantity (q)	Value (Rs in lakh)	Distributed to No. of farmers	No of Village Covered	No of KVKs
Cereals	Wheat	10909.48	292.03	5837	584	57
	Paddy	5790.56	109.05	3692	172	39
	Maize	3.90	0.15	-	-	5
	Jower	4.20	0.41	47	5	3
	Bajra	80.35	0.55	35	6	5
	Barley	47.59	1.65	104	37	6
	Mandua	10.60	0.73	45	6	4
	Barneyard millet	5.82	0.44	45	7	2
	Finger Millet	0.63	0.04	11	5	1
	Other	13.60	0.87	-	-	1
	Total	16866.72	405.91	9816	822	89
Oilseeds	Mustard	864.60	45.40	5422	359	40
	Toria	3.64	0.42	92	23	3
	Linseed	7.48	0.58	204	111	7
	Seasum	41.50	3.71	406	50	10
	Groundnut	7.05	0.70	-	-	2
	Soybean	1.85	0.19	-	-	1
	Other	5.08	0.49	108	8	0
	Total	931.20	51.48	6232	551	63
Pulses	Pigeon pea	139.39	8.06	1028	81	15
	Lentil	241.41	24.63	1552	76	13
	Moongbean	98.75	9.21	378	73	7
	Field pea	196.56	14.36	408	41	7
	Chick pea	173.01	12.30	376	57	10
	Cowpea	2.38	0.22	57	4	2
	Urdbean	157.79	11.93	300	14	12
	Other	1.12	0.05	5	-	1
	Total	1010.41	80.76	4104	346	67
Vegetables	Vegetable Pea	16.75	1.66	19.5	12	6
	Okra	0.89	0.03	100	5	4
	Suran	81.50	0.77	35	8	2
	French bean	0.11	0.00	4	-	1
	Radish	0.25	0.01	10	6	1
	Onion	0.69	0.01	9	-	2
	Chilli	0.09	0.00	2	-	1

	Other	55.19	0.71	586	6.00	3
	Total	155.46	3.20	765.5	37	20
Spices	Turmeric	70.00	1.16	82	26	8
	Coriander	4.90	0.48	10	1	3
	Garlic	6.02	0.20	14	7	2
	Fenugreek	0.84	0.04	8	4	4
	Other	3.83	0.10	14	5	2
	Total	85.59	1.98	128	43	19
Fodder/Fibre crops	Jowar	19.55	1.87	-	-	1
	Berseem	0.87	0.18	28	13	4
	Napier grass	1.00	0.25	67	34	1
	Dhaincha	21.85	0.87	46	15	2
	Sesbania	72.70	0.36	9	9	2
	Other	97.28	0.62	58	14	6
	Total	213.25	4.15	208	85	16
Commercial crops	Potato	405.25	3.94	7	-	3
	Sugarcane	2634.49	14.72	63	10	6
	Onion bulb	7.80	0.18	96	4	2
	Other	1.99	0.04	2	2	1
	Total	3049.53	18.87	168	16	12
	Grand Total	22312.17	566.35	21422	1900	89

6.2 PLANTING MATERIAL PRODUCTION

Quality Planting Material (QPM) is an essential input in agriculture and forestry for maximizing revenues, improving adaptability to adverse environmental conditions, and meeting quality raw material requirements of markets. Also availability of planting material of good quality is one of the most important elements of successful establishment of profitable enterprises of fruits and vegetables. KVKs of Uttar Pradesh produced the planting material/sapling such as vegetables, fruits, ornamentals, forestry, medicinal & fodder plants etc. During the year 2024 KVKs produced 39.007 lakh planting materials including vegetable seedlings (27.83 lakh), fruit saplings (1.61 lakh), ornamental (2.64 lakh), fodder (6.17 lakh), medicinal and aromatic (0.19 lakh) and forestry (0.56 lakh). The details of planting material production is given in Table-6.4.

Table-6.4: Physical achievement of planting production (U.P.)

Enterprise	Quantity (in lakh)	Value (Rs. in lakh)	Procured by farmers (No.)	No. of villages covered	No. of KVKs
Vegetables	27.83	24.14	24779	1779	89
Fruits	1.61	18.49	9752	1585	89
Ornamental	2.64	1.63	1590	414	48
Fodder	6.17	9.20	1468	156	17
Medicinal & Aromatic	0.19	0.33	648	49	7
Forestry/plantation	0.56	4.11	1328	158	21
Cereals (Paddy seedlings)	0.007	0.01	24	5	1
Total	39.007	57.91	39589	4146	89

6.2.1 Vegetables

KVKs produced large number of vegetable seedlings (27.83 lakh) of brinjal (Pusa Kranti, Neelam, Pusa Syamla, NavKiran, Nishant, Pusa Hybrid-6, Pusa purple round , Pusa Shyamala , Pant Rituraj, PPC , Kashi Taru, Kashi Uttam, Kashi Arun, Kashi Sandesh, Mahi Rubi, Kalyanpur Long, Karan, Sapna, Ramnagari), chilli (Tycon, Shola, K-2, Pari hot/ Indum , Mahabharta, Arka Meghana, Kashi Anmol, Arkameghna , Akanksha, Kullu, S-78, G-4, Azad Mirch-1, Pusa Jwala, VNR 200, Kashi anmol , Kasi Tez), tomato (Avinash-3, Kashisharad, Arka Samrath, Pusa Gaurav, Shivalik, Selection 22, Pusa Hybrid-8, Solan Lalima/Roma, Kashi-Aman, Vaishnavi, NP7715, Azad T-6, Kashi Abhiman, Arka Rakshak, Arka Vishal, Hy -Deo, Namdhari, Mahavir, Himsona, Pusa Ruby, Pusa Rasmi , Rohini, NDT-60), cabbage (Cabbage GA, Pusa Drumhead, NHCB-505, KGMR-1, Diamond Express, BC-90, Snowball, Sankar Tej, Pride of India, Golden Acre, Ajanta/S-92, Kaveri, G Ball 65), cauliflower (Pusa Posija, Pusa Early kuwari, GS—75/ Girija, PSBKT-25, Girza, Madhav, Snowball, Pusa Kunwari, Pusa Deepali, Hy Empire, Early Winter, Madhuri, SB. 16, Pusa Deepali, Sabour Agrim, Ketaki, Poosi, Maghi), broccoli (Green Mazic , KTS 1, Quistro, Dynasty, Green Hut), capsicum, onion (Bheema Kiran, Bhima Sakti , AFLR, Gauran, Pusared, Agri found light red, Nasik Red , Nasik 53, NHRDF Red-3.), cucumber (Green slam, Kamini), bottle guard (Varuna, Sharad, Narendra Rashmi, Nova, Pusanaveen) and sponge guard (Kashi Divya, Alok) etc. Quality seedlings made available to the farmers for enhancing their profitability and livelihood. The detail of vegetable crops with quantity of seedlings produced are given in Table-6.5

6.2.2 Fruit

The total fruit saplings were 1.61 lakh produced by the KVKs of Uttar Pradesh. Different fruit varieties have taken for different crops i.e. mango (Chausa, Kapoori, Gaurjeet, Dushari, Lungra, Amrapali); aonla (Chakaiya, NA-6, 7, 10); guava (Lalit, Sweta, L-49); lemon (Kagzhi Lime, Eureka, Rangpur Lime, Pant Lemon); papaya (Ranchi selection, Sinta-1, Mayuri, Red lady, Madhu, Lalpari, Coorg Honey Due, Pusa Dwarf, Pusa Delicious); lichi (Shahi, China, Rose scented); bael (NB-4, 5, 7, 9, CISH B-1, CISH B-2); pomegranate (Bhagwa); karonda (Gulabi); The detail of fruit saplings produced is given in Table-6.5

6.2.3 Production of ornamental, forestry medicinal & other plant saplings

KVKs of this zone produced ornamental (2.64 lakh), medicinal and aromatic (0.19 lakh), forestry plants (0.56 lakh) and fodder plants (6.17 lakh). Forestry saplings included Shisham (Deshi), teak (local), poplar (S7-Series pp-5, ph-1, ph-2, G-48, Bareilly clones, G-48, L-Series), neem (Deshi), eucalyptus (local), Cajurina, etc. Ornamental plants such as rose (Grief template), marigold (African Mariuld, Pusa Narangi, Pusa Basanti, Pusa Narangi), rajnigandha, calendula, croton, poppy, harshingaretc. This zone also produced lemon grass (Pragati) and alovera (Jafarabad). The details are given in Table-6.5.

Table-6.5: Enterprise wise and crop wise planting material production (U.P.)

Enterprise	Name of crop	Quantity (No.)	Value (Rs)	Distributed to No. of farmers	No of Village Covered	No of KVKs
Vegetables	Brinjal	432207	390325	3220	432	39
	Chilli	361265	264382	3369	266	38
	Tomato	576870	481562	5200	312	41
	Cabbage	98758	72891	1261	72	24
	Cauliflower	291961	275020	2597	136	33
	Broccoli	88495	55665	630	51	16
	Capsicum	35877	35040	3019	53	10
	Onion	646629	226045	1384	212	24
	Cucumber	22883	66136	1044	28	8
	Bottle gourd	56387	232116	1338	53	12

	Bitter gourd	40553	43640	335	48	9
	Sponge gourd	38101	33223	223	40	6
	Pumpkin	30722	49158	296	41	7
	Knolkhole	2593	-	48	5	2
	Mushroom	507	56450	156	8	2
	Others	59211	132394	659	22	6
	Total	2783019	2414046	24779	1779	89
Fruits	Aonla	87334	194473	1547	194	14
	Litchi	746	43070	338	57	5
	Mango	8099	839510	3304	240	11
	Papaya	21275	388540	1029	188	15
	Guava	5065	83260	507	269	11
	Jack fruit	562	18410	175	60	8
	Beal	2121	59900	419	138	16
	Citrus	12680	85800	252	75	4
	Lemon	2652	48290	253	109	8
	Mausammi	43	2150	26	0	1
	Karonda	13484	9690	239	82	6
	Pomegranate	95	5330	47	36	4
	Custard apple	323	960	13	3	5
	Apple	30	7050	25	16	1
	Ber	100	5500	48	36	2
	Jamun	785	5510	419	43	6
	Others	5155	51150	1111	39	9
	Total	160549	1848593	9752	1585	89
Ornamental	Marigold	214258	123859	1077	143	20
	Chrysanthmum	3200	-	-	-	2
	Rose	3380	14690	174	59	6
	Gudhal	65	1300	20	14	1
	Crotan	6	450	4	-	1
	Calandula	11039	1710	31	3	5
	Vervina	500	-	-	-	1
	Baugain villia	53	1060	18	12	1
	Durenta Golden	257	2570	9	7	1
	Glardia	4000	-	10	-	1
	Poppy	2000	-	12	-	1
	Sweet William	1800	-	-	-	1
	Other ornamental	153	1185	34	20	2
	Others	22942	16419	201	156	5
	Total	263653	163243	1590	414	48
Medicinal & Aromatic	Lemon Grass	12230	12350	108	23	1
	Aswagandha	25	320	290	-	1
	Turmeric	0.6	820	1	1	1
	Others	7103	19420	249	25	4
	Total	19359	32910	648	49	7
Forestry/plantation	Arjun	2500	0	100	17	1
	Mahua	1572	2750	291	37	2
	Neem	11269	62915	740	60	4
	Eucalyptus	25379	79410	25	10	4
	Saguan	1706	31560	74	19	3
	Samel	5	375	3	-	1
	Other forestry	13737	234105	95	15	6

	Total	56168	411115	1328	158	21
Fodder	Napier	612191	875032	968	131	16
	Others	5000	45000	500	25	1
	Total	617191	920032	1468	156	17
Cereals	Others	460	1100	24	5	1
	Total	460	1100	24	5	1
	Grand Total	3900399	5791039	39589	4146	89

6.4 PRODUCTION OF BIO-PRODUCT

The KVKs of Uttar Pradesh produced 2326.36 q of bio-products which include vermi compost (1560.44 q) and NADEP compost (371.00 q). Besides, KVKs also produced 96.95 q bio pesticides, 11.44 q bio-fungicide and 17.32 q other bio- products. The details are given in Table-6.6.

Table-6.6: Bio-product production

Bio-product category	Bio-product	Quantity (Kg)	Value (Rs)	No. of farmers	No of Villages Covered	No of KVKs
Bio-fertilizer	Vermicompost	156044.50	1141599	2674	212	25
	Nadep compos	37130.00	115700	129	27	8
	AzotoBactor	922.00	7200	17	-	1
	FYM	16120.00	13900	10	9	4
	Other	9849.00	71155	49	7	5
	Total	220065.50	1349554	2879	255	43
Bio-pesticide	Beauveria-bassiana	3100.00	15000	-	2	-
	Trichoderma Viridi	400.00	60000	300	-	1
	Botanicals	650.00	6500	320	20	1
	Other	5545.00	20455	65	5	3
	Total	9695.00	101955	685	27	5
Bio-fungicide	Trichoderma harzianum	1124.00	157600	620	164	2
	Other	20.00	11000	142	25	2
	Total	1144.00	168600	762	189	4
Other bio-product	Bio Agents	75.00	-	-	-	-
	Honey	430.00	101800	223	59	4
	Lemon pickle	133.00	19925	100	5	0
	Vermiculture	114.00	32400	6	-	1
	Worms	859.34	226004	304	48	9
	Vermis	120.85	45250	112	9	2
	Total	1732.19	425379	745	121	16
	Grand Total	232636.69	2045488	5071	592	68

6.5 LIVESTOCK & FINGERLING PRODUCTION

KVKs of Uttar Pradesh produced 54.11 lakh livestock strains including 1189 dairy animals including cows, buffaloes, calves, goat etc by 22 KVKs; poultry (13070) including broilers, layers, duals, ducks etc by 22 KVKs and fisheries (53.97 lakh) by 9 KVKs. The amount of Rs 98.39 lakh was collected from the produce. The details are given in Table-6.7.

Table-6.7: Livestock and fingerling production

Livestock category	Livestock	Number	Value (Rs)	No. of farmers	No of Villages Covered	No of KVKs
Dairy animals	Cows	37	388000	6	6	5
	Buffaloes	7	78000	4	4	3
	Calves	22	85000	0	0	2
	Goat	497	658437	427	79	10
	Others	626	138513	24	5	2
	Total	1189	1347950	461	94	22
Poultry	Broilers	2132	468446	160	88	5
	Layers	4748	387000	53	7	4
	Duals (broiler and layer)	1880	170630	128	39	5
	Japanese Quail	0	0	0	0	0
	Turkey	0	0	0	0	0
	Emu	0	0	0	0	0
	Ducks	388	27740	51	0	4
	Others	3922	122020	140	14	4
	Total	13070	1175836	532	148	22
Fisheries	Indian carp	5389686	826489	763	112	7
	Exotic carp	5000	7500	10	4	1
	Others	2500	10000	0	0	1
	Total	5397186	843989	773	116	9
Grand Total		5411445	3367775	1766	358	53

CASE STUDIES/SUCCESS STORIES

Success stories are crucial for farmers as they demonstrate the potential for improved productivity, income, and sustainable practices, motivating others to adopt innovative techniques and technologies, ultimately benefiting the agricultural sector and the livelihoods of farmers.

7.1 Poultry cum fish farming became a good source of income and employment



Mr. Daljeet Verma
S/O Ram Shubhavan Verma,
Vill.-Jana , Block-Tarun,District Ayodhya,
age-39 years,
education-Graduate

Introduction:- Mr. Daljeet Verma farmer from Ayodhya has land holding of 1 ha. His income ranged from 1.5 -2.0 lakhs annually from rice-wheat -cropping system and was not sufficient for their 8 members family needs.

KVK intervention:- In year 2020 Mr. Daljeet Verma participated in trainings on Scientific poultry farming & KVK organized demonstration on poultry farming of 500 birds on his farm. After that of he created awareness to start large scale poultry farming as an enterprise and in guidance of KVK Animal Scientist he established 3000 capacity well developed poultry farm and his net income from poultry increased up to Rs. 30, 00,000 -40,00, 000/ annum. Mr. Daljeet Verma also participated in training on composite fish farming organized by KVK, Ayodhya in year 2022 and KVK Scientists created awareness to poultry farmers to start fish farming with poultry farm and utilize the 40 % poultry manure instead of animal dung/manure for fertilization fish ponds.. After that Mr. Daljeet Verma established a fish pond in 1.5 acre area beside the poultry farm and started 3500 composite fish farming with fish species Katla, Rohu, Nain, Common Carp and Grass carp in ratio of 15:15:20:25:25 along with poultry farming.

Output:-

- Total annual cost of 15000 poultry birds (3000 birds/ batch of 5 batch/year) to gain av. wt. 2kg./bird @Rs.140/birds =Rs.21,00,000/-
- Av. Income by selling of 14700 bird (2% mortality) @ av.Rs.170/bird of 2kg =Rs. 24,99,000/-
- Av. Profit / year of 5 batch from selling of 14700 ready poultry birds = 3,99,000/-
- Income by poultry manure of 15Q.@ Rs.1500= Rs. 22,500/-
- Total annual income from poultry farm=Rs. 4,21,500 /-
- Total annual cost of fish farming in one acre ponds of 3500 fish /year) to gain av. wt 1.15 kg./fish @Rs.100/fish =Rs.3,50,000/-
- Av.Income by selling of 3430 fish (2% mortality) @ Rs.160/kg. =Rs6,31,120/-
- Av. Profit / year of from selling of 3430 fish = 2,81,120/-

Outcome-Annually profitable income-

- Total annual income from poultry farm=Rs. 4,21,500 /-
- Av. Profit / year of from selling of 3430 fish = 2,81,120/-
- Total annual profitable income =Rs. 4,21,500+2,81,120 = Rs. 7,02,620 /year



Impact- Mr. Daljeet Verma is becoming one of the progressive and learned farmers for others with regards to popularization of Poultry cum fish farming. This technology helps him for livelihood, empowerment. Now this technology is adopted by more than 4 farmers started the Poultry cum fish farming technology by seeing and believing in nearby villages. Integrated poultry farming of broiler birds along with fish production made better utilization of resources, substantially with proper nutrition and feeding, diseases control and management, provides more profitable income. Mr. Daljeet Verma is satisfied from his poultry cum fish farming business and his income increased three times which improved his livelihood and set forth example for others farmers.

7.2 Beekeeping made the basis of enterprise



Shri Bhagwan Singh
S/o Shri Devdatta
Village – Brahimpur, PO – Sukhaura, Block – Samrer,
District- Badaun
Mob. No. – 7409498341
Age - 47 years
Education: High School

Introduction:- Shri Bhagwan Singh has holding of 0.6 ha. Land and took the interest in Beekeeping for income generation.

Situation analysis/ Problem statements:- Shri Bhagwan Singh used to cultivate wheat, paddy, maize, sugarcane and mustard etc. on his land due to which he was facing financial crisis due to low income. He was always interested in agricultural diversification and how to earn additional income.

Plan, Implement and Support:- Beekeeping is the main component of agricultural diversification. Beekeeping is helpful in earning self-employment. Beekeeping provides additional income which can improve the economic and social status of the family. Beekeeping can be easily started by unemployed youth and women with less capital. Beekeeping is helpful in pollination which increases the yield of crops by 10-15%. Honey, wax, royal jelly, resin, bee venom, pollen and bee offspring are obtained from beekeeping.

KVK intervention, Practical utility and Economic:- On scientific advice from KVK, Shri Bhagwan Singh started beekeeping with 10 honey bee boxes. Due to the large area of mustard and linseed in the district, the bee population increased rapidly, due to which he now has 200 bee colonies. An average of 25 kg honey was obtained per bee colony. 5000 kg honey was obtained from the total colonies. This gave a total income of Rs. 7 lakhs. A net profit of Rs. 3.5 lakhs was obtained. Rs. 1.5 lakhs were obtained by selling 50 bee colonies. A total net profit of Rs. 5.0 lakhs was obtained and due to keeping bee colonies in oilseeds and pulses, the

pollination process took place smoothly, due to which there was an increase of 10-15 percent in the yield.

Output, Outcome and Impact:- Awareness about beekeeping has increased among farmers. 200 farmers in the district have started beekeeping. There has been improvement in socio-social status and better standard of living.



7.3 Mushroom and Vegetable Production ensuring livelihood security of the farmers



Mr. Janak Chaudhary,
village Rudrauliya,
block: Bhanvapur,
district: Siddharthnagar

Situation analysis/ Problem statements:- Mr. Janak Chaudhary is a farmer from district Siddharthnagar has 2.0 acre land and earlier involved with production of conventional rice wheat cultivation.

Plan, Implement and Support:- KVK Siddharthnagar tries to make him aware regarding Mushroom and Vegetable Production. KVK has advised to produce market oriented high value vegetable crops as well as button mushroom production under supervision of KVK Scientists.

Output:- Mr. Chaudhary adopted the the good agricultural practices with high yielding vegetable crops as well as button mushroom production at commercial level as per suggestion of KVK's scientist for his 2.0 acre land. earlier he was produced 102 qt. from rice wheat and mustard after getting training from KVK he started Vegetable and Mushroom Production. He produced 350 qt vegetable i.e. Bottle gourd, Okra, Bitter gourd Pumpkin, and 7.0 qt Mushroom gross cost 150000, gross income 525000 and net income 375000, and BC ratio 3.5, with recommended good agricultural practices with high yielding vegetable crops and button Mushroom production training.

Outcome:- Button Mushroom and good quality vegetables have high demand in the district. Mr. Chaudhary produced high quality Button mushroom and vegetables sale in nearest Mandi of the District. Several farmer of the different villages visited Mushroom and vegetable production unit of Mr. Chaudhary. Vegetable and mushroom production model of Mr.

Chaudhary has been broadly disseminated in the district. The outcome of vegetable and mushroom production model to replace their old practice which was rice wheat production. Mr. Chaudhery is very happy on improvement in their income, livelihood as nutritional security of our family.

Impact:- Mr. Chaudhery is a innovative and progressive farmers producing high quality Button mushroom and different vegetables. Good agricultural practices with high yielding vegetable crops and button mushroom production helps him for livelihood, empowerment, nutritional security. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development and pervasiveness. Mr. Chaudhery is very happy with this improved production and management technology of button mushroom and different vegetables and set example for other farmers of the District.



7.4 Income Enhancement through Happy Seeder sown Wheat



Mr. Ram Prakash Yadav
S/o Sri Daleep Yadav
village Arajibagmati,
block Rani ki Sarai,
District Azamgarh (U.P.).

Shri Ram Prakash Yadav farmer from Azamagarh owns 8.35 ha of land and 6 high yielding milch animals. He has six members in his family and is totally dependent on him. Wheat is an important *rabi* season crop in eastern Uttar Pradesh. Earlier, Mr. Yadav used to sow his wheat through broadcasting method with help of rotavator or cultivator. However, he always worried about burning of crop residue in field and think about a machine which can be utilize to cut the stubbles into a small pieces and mix in soil to improve the status. With all these thoughts, he came to Krishi Vigyan Kendra, Kotwa, Azamgarh and met with Dr. K.M. Singh, Head of the Kendra.

Mr. Yadav discussed all his problems in detail *viz.*, crop residue burning and higher cost involved in wheat sowing. Dr. Singh suggested him to use happy seeder machine for sowing of wheat and chopper as well to cut the stubbles in small pieces. He suggested Mr. Yadav to take advantages of KVK to improve his farming and enhance the income.

After getting technical information about happy seeder, Mr. Yadav learnt the calibration of happy seeder in field. He got fully satisfied that wheat sowing with happy seeder will certainly give him good output. He sown wheat in 9.0 acres area during 2018 with the help of happy seeder and reduced the cost up to half in comparison to conventional method of wheat sowing. Mr. Ram Prakash is very happy with the experience of happy seeder sown wheat and gives credit to KVK, Azamgarh for provided technologies under crop residue management project.

He observed many benefits of happy seeder for sowing of wheat. Some of benefits are enumerated as below.

- ❖ The amount of organic matters in soil got increases as observed in SHC.
- ❖ Saving of 2-3 irrigations have been observed.
- ❖ Chemical fertilizers can be reduced gradually with incorporation of crop residues in soil.
- ❖ More numbers of tillers can be obtained with happy seeder sown wheat.
- ❖ Lodging of crop can also be prevented in happy seeder sown wheat up to some extent in comparison of conventional method.

Experience of farmer regarding CRM technology in term of savings

S. No.	Type of operation	Happy Seeder	Conventional method	Net Savings (Rs.)	% Increase over FP	Farmers feedback
1.	Field preparation & sowing	Not required	Mandatory	8201.00	100.00	Happy seeder saved time and money required in field preparation and sowing. Besides, increased wheat yield also recorded due to timely sowing of wheat.
2.	Residue management of paddy	Well incorporated in soil	Burned before wheat sowing	0.0	100.00	Due to burning of residues, loss of recyclable nutrients observed and also caused air pollution.
3.	Seed & fertilizer placement	Right placement of both inputs	Broadcasting of both inputs leads to improper placement and excessive use of seeds & fertilizers	2753.00	31.20	Fertilizer used efficiency increased due to right placement and it also improved the soil fertility level by decomposition of crop residues.
4.	Weed management	Almost negligible	Severely invades	650.00	67.50	Paddy straw act like mulch and suppressed the weed germination.
5.	Irrigation and inter culture operations	Less water, less time and reduced no. of irrigation	More water and time required in first irrigation	3771.00	36.30	Time of irrigation got reduced due to non ploughing/pulverize of soil.
6.	Yield (q/ha)	49.75	42.15	7.60	18.03	
7.	Additional total savings			30005.00		
8.	Total additional income through CRM for livelihood of family (3.6x30005)			108018.00		





7.5 Success of high yield mustard variety Giriraj



Sri Yashpal Singh
S/O: Sri Dashrath Singh
Village : Chakdedwani,
Block: Mohammadpur,
District Azamgarh (U.P)

Introduction: Mr. Yashpal Singh of Azamgarh district after completion his education up to B.A. degree, engaged himself in agriculture in his own land for running his family. He possesses 3.5 ha of land, out of which he cultivates Cereal Crop in 3.00 ha and 0.5 ha under vegetable cultivation. But income generated from his farm was not enough for smooth running of his family. Later on he formed a farmers group along with few youths (FPO)

Situation analysis/ Problem statements: Mr. Yashpal Singh along with his group came to KVK Kotwa, Azamgarh and they expressed their willingness to utilize his field for crop production. Then a team of scientists from KVK, Kotwa, Azamgarh-I visited the area and after discussion with the farmers and necessary survey, conducted a training program for them. Later on, they were provided with seeds of high yielding Oil Seed Crop Musturd Giriraj and other necessary inputs for demonstration.

Technology Demonstrated : High yielding Oil Seed Crop Mustered-Giriraj, Vermicompost @ 12.5 q/ha, 50 % recommended dose of N and full dose of P, K, Sulphur fertilizer

Output: The crop was sown during October and harvested during February and gave yield of 19.06 q/ha and earned a very good net income of Rs. 82980/ha.

Outcome:

- Demonstration: 19.60 q/ha
- Potential yield of variety/ technology :18.00 q/ha
- District average (Previous year) : 14.48 q/ha
- State average (Previous year): 12.06 q/ha

Impact: After successful implementation of the technology, farmers in the village were highly impressed and motivated by the performance of the new variety (Musturd Giriraj) of with improved cultivation practices due to its higher net income. He is now a role model not only in his village but also for the entire farming community of the nearby villages. Farmers from other villages are motivated by the success of this farmer and showing keen interest to implement pulses production program with proven HYV seeds in their villages. These interventions have the potential to create positive impact on Oil Seed production in Azamgarh district which will benefit the farmers at large.



7.6 Successful performance of mustard (CS-60) in soil sodality (High pH 8.5-9.5)



Sri Lal Bahadur Singh
District Pratapgarh
Education: 12th

Plan, Implement and Support - Sri Lal Bahadur Singh of Pratapgarh district after completion his 12th, engaged himself in agriculture in his own land for running his family. He possesses 1.25 ha of land, out of which he cultivates Wheat in 1.00 ha and 0.25 ha under mustard cultivation and other seasonal fodder and vegetables. But income generated from his farm was not enough for smooth running of his family. KVK Pratapgarh has demonstrated the Salt tolerant variety Mustard, variety CS-60 along with other technology mentioned above during Rabi, 2023-24 under CFLD on oilseed with use of fertilizer on the basis of soil test.

Output - The crop was sown during second week of October, 2023 and harvested during first week of March, 2024. They have harvested a very good crop (Yield: 12.5 q/ha) and earned a very good income (Net income Rs. 50,825/ha). The yield and high net return due to performance of mustard salt tolerant variety

Variety performance :

- No. of dead plant/sqm in FP – 3 to 5
- Plant height: Demo- 178 cm; FP- 152 cm
- No of branch (P): Demo- 6 to 8; FP- 4 to 5

Outcome - After successful implementation of the technology, farmers in the village were highly impressed and motivated by the performance of the new mustard variety (CS-60) of oilseed with improved cultivation practices due to its higher net income. Farmers from other villages are motivated by the success of this farmer and showing keen interest to implement oilseed production programme with proven Salt tolerant variety seeds in their villages. These interventions have the potential to create positive impact on oilseed production in nearby villages.

Impact - Mr. Lal Bahadur Singh is becoming one of the progressive and learned farmers for others with regards to popularization of Mustard var. CS-60. This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for development of all nearby villagers and his own development. Mr. Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.



7.7 Urd bean variety (Sekhar-02) becoming popular among farmers' for their yielding trait



Mr. Sompal Singh
Village: Barshabad, Post: Gajraula
Block: Gajraula
District: Amroha

Introduction:- Mr. Sompal Singh, Village: Barshabad, Post: Gajraula, Block: Gajraula, District: Amroha, a farmer who was selected for this demonstration. He was earlier involved with local variety of wheat PU-31. This variety was low in yield.

KVK Interventions:- KVK Amroha tries to make them aware regarding adoption of new wheat variety Sekhar-02 under timely sown condition. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding varieties Sekhar-02. That was sown on 25-07-2023 with line sowing and fertilizer application was done with basal application in which half dose of nitrogen full dose of SSP and full dose of MOP as recommended. Rest nitrogen used after first & with second irrigation.

Output:- Mr. Sompal Singh adopted the balanced dose of chemical, fertilizer (N:P:K:S::15-20:40-50:30-40:30) kg/ha in Urd Bean crop as per suggestion of KVK's scientist for his 0.25 ha land. His local yield was 9.75 qt with recommended technology. His yield increased by 18.75 % with yield 12.00 qt. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs. 27500, Rs 78000, Rs. 50500 and 2.84 correspondingly.

Outcome:- Wheat crop is the major cereal crop of the district. KVK Amroha conducted 42 demonstrations in 05 villages during kharif-2023 in an area of 10.0 ha at farmers' field with using HYV Sekhar-02 and balanced dose of chemical fertilizer (N:P:K:S::15-20:40-50:30-40:30) kg/ha. This variety has been disseminated in 07 villages of the district in area of approximately 12 ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Sompal Singh is very happy on improvement in their income, livelihood and set forth example for others.

Impact:- Mr. Sompal Singh is becoming one of the progressive and learned farmers for others with regards to popularization of Sekhar-02. This technology helps him for livelihood, empowerment and make him enthusiastic regards cereals production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Sompal Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.



7.8 Narendra Arhar-2 becoming popular in farmers' for yield and their characteristics



Mr. Indra shen singh,

Village Pattirao

Post: kauli Block: Buxa

District: Jaunpur

District Background: District Jaunpur comes eastern agro-climatic zone and Maize- Wheat, Paddy-Wheat crop zone of Uttar Pradesh. This zone is located in the east of the state between 25.7490' N-Latitude and 80.6987' E longitude with an altitude ranging from 80 m to 88 m above the mean Sea level. Total geographical area of the district is 4038 sq kms and a total cultivable area is 2.81 lakh ha. Out of which net sown area is 2.79 lakh ha. The area under irrigation is only 2.50 lakh ha. The main crops of the district are paddy (rice), wheat, maize, sugarcane, pigeon pea (long duration), chickpea vegetable and oilseed.

Situation analysis/ Problem statements: Mr. Indra Shen Singh, a farmer of Jaunpur who was selected for this demonstration. He was earlier involved with local variety of Pigeon pea variety Bahar and Amar. These varieties were low in yield. Mr. Singh were sowing of pigeon pea in flat field with broadcast method, no use of fertilizers and plant protection techniques.

Plan, Implement and Support: KVK Jaunpur take action to make them aware regarding scientific cultivation of pigeon pea. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding variety Narendra arhar-2. That was sown with ridge bed technique; seed treated with rhizobium culture and fertilizer application was done on the based soil test with basal application at the time of sowing.

Output: Mr. Indra shen Singh adopted the balanced dose of chemical, fertilizer (N:P:K:S::20:40:20:20) kg/ha in Pigeon pea crop as per suggestion of KVK's scientist for his 0.8 ha land. His local yield was 12.58 qt with recommended technology. His yield increased by 25.58% with yield 16.31 qt. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded Rs 19200, Rs 114170, Rs. 94970 and 4.95 correspondingly.

Outcome: Pigeon pea is the major Pulse crop of the district. KVK Jaunpur conducted 195 demonstrations in 26 villages in an area of 75 ha at farmers' field with using HYV NA-2 and balanced dose of chemical fertilizer (N:P:K:S::20:40:20:20) kg/ha. This variety has been disseminated in 285 villages of the district in area of approximately 1150 ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Singh is very happy on improvement in their income, livelihood and set forth example for others.

Impact: Mr. I. S. Singh is one of the progressive and learned farmers for others with regards to popularization of Narendra Arhar-2. This variety is resistant to Sterility Mosaic Virus and Wilt,

tolerant to pod borer. Bold seeded with higher Dal recovery and Suitable for timely and late sown conditions. This technology helps him for livelihood, empowerment and make him enthusiastic regards pulse production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Singh is very happy with this improved production and management technology and set forth example for other farmers of the district

7.9 Success story of women farmers intensive vegetable farming and drone technology



Miss Shabina Khatoon

Village, Sandwa,

Block: Mawai,

District: Ayodhya

Mob. : +91 7054051729



Situation analysis/Problem statement: Miss Shabina Khatoon belongs to village Sandwa of Mawai block in district Ayodhya. Miss Khatoon, an educated young woman. She is a progressive farmer. Although she has completed her Bachelor Degree and she is not running after a salaried job. Rather, she has taken up Agriculture as a vocation and is doing different agricultural practices with success and established herself as a renowned progressive farmer in the locality. Now, she established a 2000sq. m poly house in her village Sandwa in the year 2020. She started capsicum cultivation, strawberry cultivation and other vegetable cultivation. She has a farm pond, a poly house, a shade net house, tractor, rotavator and drone techniques including all farm machineries.

Training: Being an enthusiastic farm woman, takes interest in agricultural awareness camps organized by KVK and other agencies. She is a regular trainee's and visitor of KVK and has taken advance trainings in vegetable cultivation, horticulture, vermi-composting, water management, post harvest and value addition etc. from KVK, Ayodhya. Her passion, zeal and constant personal interaction with KVK scientists has led her to the front step of being a progressive and innovative farmwoman.

Achievements: Miss Shabina Khatoon manages the marketing of her produce in such a way as to bring her maximum profit with minimum hassle. She has developed hydroponics system, shade net house for seedling production on their own field. She sells the vegetable crops like potato, chili, capsicum, brinjal and Cucurbitaceous crops in wholesale in fruit (Strawberry) and vegetable market yards (*Sabji mandis*). Before bringing the produce to the market she collects the information about the rates in different *mandis* so that she gets the highest price. She supplies the fresh vegetables and strawberry to local vegetable vendors and to the customers directly on demand. Consumers contact her if they need fresh vegetables in bulk for parties, marriages or any other function etc. Thus, in a very pragmatic way she reaps the benefits of her hard work and earns a commendable profit from all agricultural enterprises to the tune of about seven 8-10 Lacks annually.

Importance for farmers: Miss Shabina Khatoon is a source of inspiration for other women involved in farming. She is always ready to provide them the help and guidance needed. She also encourages the farm women in the surrounding villages to adopt new and innovative methods of farming with the help of KVK Scientists and other experts.

Recognition: Miss Khatoon is also known as *Drone Didi* in Ayodhya districts. She has recognized by various Government organizations, Agricultural Universities, KVK etc. on her achievements and awarded her at various occasion.



7.10 Successful Horticulture based IFS for sustainability & livelihood.

Shi Brij Mohan, District: Mahoba



Introduction: Shi Brij Mohan has 12.0 acre land was struggling for proper livelihood earnings due to lack of technical knowledge and resources. His family has migrated to town for better earning through small scales businesses and rented out his agricultural land to neighboring farmers. He has tried different ventures like grocery, snacks, Pan Masala, etc but could not succeed due to his poor educational background. He was looking for better option when he met Krishi Vigyan Kendra Scientists in the year 2018 and shares his experience regarding year after year loss in agriculture. He has visited KVK for guidance and trainings.

KVK intervention: The KVK experts discussed resource and problems with Shri Brij Mohan and provided technical & professional training for scientific cultivation of fruits, vegetables, Field crops as well as vermi compost production. Also, under the demonstration of various advanced technologies by the KVK, they were motivated for scientific farming through Kharif Onion-L 883, Tomato-Arka Samrat, Natural Farming, Bee Keeping, Papaya cultivation, Orchard plantation, Sprinkler System etc. KVK experts also suggested and guided him to avail different subsidy schemes of Line departments for better infrastructure and remuneration. He availed different government schemes for construction of onion storage, vermi compost unit, pack house, orchard establishment, installation of micro-irrigation system under KVK's technical supervision.

Output: The annual income of Shri Brij Mohan family was around Rs 2.3 lakhs in the year 2019, which has now increased to Rs 7.2 lakhs. He produces about 500qtls of fruits and seasonal vegetables and more than 200 qtls of field crop.

Outcome: There has been a huge change in Shri Brij Mohan's economic and social status through the training, guidance and support of Krishi Vigyan Kendra. Now he is doing agriculture commercially on large scale through which he has provided good education and facilities to her children while discharging her family responsibilities in a better way. He has sent one of his sons to study in IIT Guwahati and other to ANDUAT, Ayodhya while his daughter could secure a job in State Bank of India. With the increase in family income, respect in the society has also increased.

Impact: More than 100 farmers of the village and nearby villages got inspired from Shri Bhij Mohan and started adopting scientific cultivation, micro-irrigation in pulses and oilseeds, drip irrigation in vegetables, etc.



7.11 Different enterprise based successful IFS model



Sri Ram Lal Verma

Village: Jayapur

Block: Arajiline

District: Varanasi

Mobile: 94252267695

Situation analysis/problem statements

Sri Ram Lal Verma, village Jayapur, block Arajiline having 9.25 acre land. He is followed paddy – wheat cropping system on their field. He was facing the problems of poor yield and low income from their farm. Sri Verma visited KVK Varanasi and discussed with scientists about their problem of poor productivity and low income.

Plan and Implementation and Support

KVK scientist visited to the field of Sri Ram Lal Verma and suggested to him for adoption of integrated farming system on their field. After visit of scientist he changed their pattern for growing of different crops on their field and also start rearing of milch animals (buffalos) and planted fruit plants on their field. Krishi Vigyan Kendra Varanasi scientists visited time to time on Sri Ram Lal Verma field for scientifically look after the crops and animals. Scientist also suggested to him for soil testing, proper irrigation management, improved variety seed of crops, balance use of fertilizers, proper management of weed, insect, pest, and disease of crops with proper health case of animals.

Outputs

Sri Ram Lal Verma has started some component of integrated farming system on their farm and proper utilization of farm wastage for the making of organic manures and used for growing of various crops that was helps for minimizing the cost of cultivation and also improving of net income.

Economics of various crops

Sl. No.	Name of Crops	Area (acre)	CoC (Rs./acre)	Total CoC (Rs.)	Yield (qt.)	Total income (Rs.)	Net Return (Rs.)	B:C Ratio
<i>Kharif crops</i>								
1	Paddy	4.5	28200	126900	92	176640	71490	1.67
2	Til	1.25	7840	9800	3.25	19500	9700	1.99
3	Arhar	1	13520	13520	3.5	21000	12400	2.44
4	Bitter guard	0.25	26200	6550	30	28500	21950	4.35
5	Sponge gourd	0.25	27000	6750	35	35000	28250	5.19

Rabi crops								
9	Wheat	5	26800	134000	105	231000	97000	1.72
10	Mustard	0.25	14600	3650	2.2	11000	7350	3.01
11	Potato	0.25	62800	15700	45	38250	22550	2.44
12	Veg. Pea	1	28000	28000	8.5	46750	18750	1.67
13	Cauliflower	0.25	25600	6400	21.5	21500	15100	3.36
14	Onion	0.25	48000	12000	17	27200	15200	2.27
15	Brinjal	0.25	22800	5700	22	24200	18500	4.25
Total				368970		680540	338240	

Economics of Orchard

Sl. No.	Fruit plant	Area (acre)	Operational Cost (Rs./ha)	Total income (Rs.)	Net income (Rs.)	B:C ratio
1	Mango	2.0	63400	112000	48600	1.77
2	Papaya					
3	Guava					
4	Lemon					
Total			63400	112000	48600	

Economics of Animal Husbandry

Animals	Numbers	Operational Cost (Rs.)	Total income from milk (Rs.)	Net income (Rs.)	B:C ratio
Buffalos	2	180000	374400	194400	2.08
Total		180000	374400	194400	

Chapter-8

PUBLICATIONS, HRD, WORKSHOPS AND MEETINGS

A total of 27 publications including research papers (9), books (3), technical report (1), popular articles (5) and newsletters (4) have been published by ICAR-ATARI, Kanpur. KVKs of this zone also published a total of 41930 which includes books(80), bulletins(149), Newsletters(483), Training Manual(219), Book chapters(262), Research papers(256), Lead papers(74), Seminar papers(118), Extension folder(36304) and Proceedings(113) etc.

In the period under report, this institute also organised Workshop/HRD (5) and participation in 141 different kind of meetings by hybrid and virtual mode.

8.1. PUBLICATIONS BY ATARI**8.1.1 Papers in research journals**

1. Seema Yadav¹ · Chandrahas² · Rajneesh Thakur³ · Amandeep Singh⁴ · Arun Somagond⁵ · S. K. Dubey. 2024. Effect of substrate dilution ratios (SDRs) on biogas and bioslurry production from anaerobic digestion of pig faeces under field condition. *Biomass Conversion and Biorefinery*.
2. Ajay Kumar¹, Anurag Ajay¹, S K Dubey^{2*}, Vipin Kumar³, Madhulika Singh¹, Shishpal Poonia¹, Prabhat Kumar¹, Rachana Dubey⁴, R K Malik¹ and Peter Craufurd. 2024. Demystifying the wheat (*Triticum aestivum*) yield penalty due to delay in sowing: Empirical evidence from eastern India. *Indian Journal of Agricultural Sciences*.
3. Hari Sankar Nayak ¹ , Andrew J. McDonald ¹,VirenderKumar², Peter Craufurd³, Shantanu Kumar Dubey⁴, Amaresh Kumar Nayak⁵, Chiter Mal Parihar⁶, Panneerselvam Peramaiyan ⁷,Shishpal Poonia⁸, Kindie Tesfaye ¹¹ ⁹,RamK.Malik⁸, Anton Urfels^{1,2,10}, Udham Singh Gautam⁴ & João Vasco Silva. 2024. Context-dependent agricultural intensification pathways to increase rice production in India. *Nature Communications*.
4. Uma Sah¹, Rekha Rani¹, Hemant Kumar¹, Devraj¹, Jitendra Ojha¹, Vikrant Singh¹, S K Dubey^{2*} and G P Dixit¹. 2024. Dynamics of lentil (*Lens culinaris*) production and trade: Global scenario and Indian interdependence. *Indian Journal of Agricultural Sciences*.
5. Swati Deepak Dubey , Alka Pandey , S. K. Dubey and Yatendra Kumar ⁴. 2024. Traceability of Traditional Processing Techniques and Indigenous Recipes of Ragi (Finger millet) through QR in Pratapgarh District, Uttar Pradesh. *Agriculture Association of Textile Chemical and Critical Reviews Journal*.
6. Yadav, S.,Thakur, R., Singh, A., Somagond, A. and Dubey, S.K., 2024. Effect of substrate dilution ratios (SDRs) on biogas and bioslurry production from anaerobic digestion of pig faeces under field conditions. *Biomass Conversion and Biorefinery*, pp.1-15.
7. Thakur,R., Chandrahas, Tarafdar, A., Yadav, S., Gaur, G.K., Singh, M., Verma, M.R., Kumar, N. and Godara, R., 2024. Potential of layer excreta as a substrate for sustainable production of green energy. *Biomass Conversion and Biorefinery*, pp.1-14.
8. Singh T, Arora S, Nautiyal P, Sahu A, Rai T N, Singh Raghwendra and Dubey S K. (2024). On-farm Assessment of Halophilic Microbial Bio-formulation on Productivity of Mustard Crop in Sodic Soils of Indo-Gangetic Plain *Journal of Soil Salinity and*

Water Quality. 16(3): 424-430.

9. Chander Subhash, Ghosh D., Tyagi V. C., Sreekanth D., Chethan C.R., Gowthami R., Mahendru A., Singh Raghwendra and Raghavendra K. V. (2024) Impact of climate change on soybean and associated weed interactions. Indian Journal of Weed Science (2024) 56(4): 417-425

8.1.2 Books

1. S.K. Dubey, Raghwendra Singh, Seema Yadav, S.N. Yemul. 2024. Farmer FIRST Programme From Context to Scale. ICAR-ATARI, Kanpur. Pp 1-51.
2. S.K. Dubey, Raghwendra Singh. U.S. Gautam, S.K. Singh, Sadhna Pandey, S.N. Yemul, Soham Katiyar, Ajay Singh Gautam and Rajeev Singh. 2024. Unleashing the Potential: Crop Performance Under Natural Farming in Uttar Pradesh: Experiences of KVKs. ICAR-ATARI, Kanpur. Pp 1-39.
3. U.S. Gautam, V.P. Chahal, R. K. Singh, S.K. Dubey, S. K. Singh, Raghwendra Singh & S.N. Yemul. 2024. Performances of Improved Pulses Production Technologies: Experiences of CFLD-Pulses in India (2021-22). ICAR-ATARI, Kanpur. Pp 1-152.

8.1.4 Technical Report:

1. S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav and S.N. Yemul (2023). Annual Progress Report of KVKs Published by ICAR-ATARI, Kanpur.

8.1.3 Popular articles

1. Seema Yadav, Raghwendra Singh, S K Dubey, S K Singh and S.N.Yemul.2024. Backyard poultry se khadya evam poshan suraksha. Kriskak Bharti (Zaid visheshank). CSAUAT, 54-56.
2. Seema Yadava, Shantanu Kumar Dubey, Raghwendra Singh and Pragya Bhadauriya. 2024. Gabhin dairy pashu evam navjaat bacchade ka prabandhan. Bhartiya Krishi Pradyoki darpan. ICAR. 01: 26-30.
3. Raghwendra Singh, S K Dubey, S K Singh, Seema Yadav, Mohil Kumar, Gyanendra Singh and Rajeev Singh.2024. Unnat kharpatwar prabandhan apnaye, sabji utpadan ko laabhkari banaye. Kriskak Bharti (Zaid visheshank). CSAUAT, 47-51.
4. Seema Yadav and Shantanu Kumar Dubey. 2024. Sukar palan: Udyam se uday. Poorbi Kiran. ICAR, 40-47
5. Nautiyal, Pankaj, Singh Raghwendra (2024). Prakratik Kheti Kam Lagat Kheti ka Saral Vikalp, Training manual (01/24). ICAR-CSSRI. p-64

8.1.5 News Letters:

1. S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav & S.N. Yemul (2024). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 34, pp 1-12.
2. S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav & S.N. Yemul (2024). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 35, pp 1-12..
3. S.K. Dubey, Raghwendra Singh, Seema Yadav & S.N. Yemul (2024). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 36, pp 1-16.

4. S.K. Dubey, Raghwendra Singh, Seema Yadav & S.N. Yemul (2024). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 37, pp 1-16.

8.2 PUBLICATIONS BY KVK

S.No.	Category	Number	No. of KVKs
1	Book published	80	37
2	Bulletins	149	38
3	Newsletters	483	22
4	Training Manual	219	34
5	Book chapters	262	44
6	Research papers	256	65
7	Lead papers	74	19
8	Seminar papers	118	31
9	Extension folder	36304	42
10	Proceedings	113	28
11	Others	3872	42
Total		41930	89

8.3 WORKSHOP/HRD BY ATARI

1. Zonal workshop of CFLD on Pulses and Oilseeds was organized at BUAT, Banda during 27-29 February, 2024.
2. Annual Zonal Review Workshop of NICRA Project for KVKs of Uttar Pradesh during 25-26th June, 2024,
3. 31st Annual Zonal Workshop of KVKs of Uttar Pradesh organized by ICAR-ATARI, Kanpur during 24-26 September, 2024
4. Agro-Climatic Zone wise Action Plan-2025 & Mid Term Review Workshop of KVKs. Eastern Plain Zone (Group 1) from 22.10.2024 to 24.10.2024, South Western Semi Arid Zone & Central Plain Zone (Group 2) from 28.10.2024 to 30.10.2024, Bhabar & Tarai, Western Plain and Mid Western Plain Zones (Group 3) from 13.11.2024 to 14.11.2024, Bundelkhand Zone, North Eastern Plain Zone and Vindhyan Zone (Group 4) from 26.11.2024 to 28.11.2024
5. 3rd phase of 9th MDP Trainee during 23-27 July, 2024 at ICAR-ATARI, Kanpur

8.3 PATICIPATION IN MEETING

S.No	Details	Date
1.	Participation in National workshop of ARYA Project at Gaya, Bihar	22-23 Feb., 2024
2	The Zonal Monitoring Committee (ZMC) visit to NICRA Project districts.	5-7 March, 2024
3	10 th Institute Management Committee (IMC) Meeting of ICAR-ATARI, Kanpur	21.02.2024.
4	Participation in 'Mahila Kisan Mela & Gosthi' organized by KVK Jhansi	14.03.2024
5	Inauguration of 16 th Institute Foundation Day' and National Seminar on 'Cultivating Sustainability through Natural Farming Practices'	21.3.2024

6	Participation in Curtain Raiser Event of Golden Jubilee Celebration of KVKs at Puducherry	21.03.2024.
7	Participation of KVKs in Viksit Bharat Sankalp Yatra organized	1-26 Jan, 2024.
8	Participation in online meeting regarding Presentation of new project of RAC for Internal Review Meeting under the chairmanship of DDG (AE)	04.01.2024
9	Online participation in DG's Interaction with all Scientists of ICAR	05.01.2024
10	Visit to ATARI Patna for discussion of Network Project to finalize for RAC	10.01.2024
11	Online NICRA Review Meeting Actual Expenditure and Action Plan 2024 organized by ICAR-ATARI, Kanpur	11.01.2024
12	Participation in Management Meeting in BUAT Banda as DDG Nominee	16.01.2024
13	Participation in online meeting on Soil Health Programme in 1000 Schools on	16.01.2024
14	Participation in online meeting regarding Review of Progress of Golden Jubilee of KVKs under the chairmanship of DDG (AE)	29.01.2024
15	Participation in National conference at ICAR-IISR, Lucknow	01.02.2024
16	Participation in online ICAR-CSISA Collaboration Online Meeting at 11.00 AM on 1st February 2024	01.02.2024
17	Participation in Kisan Mela and Millets Exhibition at RVSKVV, Gwalior.	05.02.2024
18	Online participation in NICRA Budget meeting.	07.02.2024
19	Participation in online Meeting on Bank account opening at KVK level for CFLD Pulses and Oilseeds under the chairmanship of DDG (AE).	08.02.2024
20	Participation in online ICAR- AUs Interaction meeting.	10.02.2024
21	Participation in online meeting on Interaction with Directors of ATARI for Parliamentary Committee for estimates reply under the chairmanship of DDG (AE)	16.02.2024
22	Visit to KVK Jhansi.	18.02.2024
23	Participation in online Meeting regarding Discussion on various Animal Science related programmes to be implemented through KVKs.	22.02.2024
24	Participation in program organized by DRI Chitrakoot on the occasion of 14th Punyatithi of Rashtrarishi Nanaji Deshmukh Ji.	25.02.2024
25	Participation in VC's and Director's conference in New Delhi.	26-27 Feb., 2024
26	Participation in meeting with ATARI Directors under the chairmanship of DDG (AE) at the Committee Room of Div. of AE, KAB-I, ICAR to discuss the issues related to the ATARIs & KVKs.	27.02.2024
27	Participation in online Meeting on Extension and Capacity Building in collaboration with KVKs' under the Chairpersonship of Secretary, AHD	29.02.2024
28	Online Review of Expenditure till date and requirement of additional funds under SCSP for the year 2023-24 organized by ICAR-ATARI, Kanpur	01.03.2024

29	Participation in online Meeting on Oilseed Model Village.	05.03.2024
30	Participation in online meeting regarding Revision of Project Proposal on CFLDs under the chairmanship of DDG (AE).	08.03.2024
31	Meeting with ITC in Lucknow.	11.03.2024
32	Participation in online Meeting for Certification of Technology Product Model in Agriculture Extn. under the chairmanship of DDG (AE).	12.03.2024
33	Participation in online meeting of ICAR-Bayer Crop Science collaboration for DSR demonstrations at 45 KVKs under the chairmanship of DDG (AE)	12.03.2024
34	Participation in online Meeting with Directors ATARI regarding Golden Jubilee Celebration of KVKs under the chairmanship of DDG (AE).	18.03.2024
35	Participation in online Meeting on Financial and Administrative Review under the chairmanship of DDG (AE).	26.03.2024
36	Participation in online Meeting with AF & AO of ATARI for Expenditure status under the chairmanship of DDG (AE).	28.03.2024
37	Participation in online SAC Meeting of KVK Pratapgarh.	28.03.2024
38	SMD level Review and Golden Jubilee activities under the Chairmanship of DDG (AE)	01.04.2024
39	Comprehensive Guidelines for the Foreign Visits of the Scientists/Officials of ICAR under the chairmanship of Secretary DARE & DG ICAR	03.04.2024
40	Online Review Meeting of SMDs (Extension, Horticulture and Animal Science Divisions)	05.04.2024
41	Meetings on “100 day Action Plan for Viksit Bharat” and 'Impact of Nutritional Interventions on Production and Consumption Diversity: A Step Towards Achieving SDGs'	08.04.2024
42	Online participation in Meeting on Ecoregional Working Group Programme	12.04.2024
43	Visits Bharat Meeting under the Chairmanship of Secretary DARE & DG ICAR	16.04.2024
44	Participation in Online Review Meeting by SMD	29.04.2024
45	Launching of DSR Demonstrations under ICAR-Bayer Crop Science Collaboration Programme	30.04.2024,
46	Participation in the meeting on Viksit Bharat (Horticulture Crops)	01.05.2024
47	State Level Pre-Kharif CSISA-Convergence Platform (CP) meeting held at ICAR-ATARI, Kanpur	28.05.2024
48	Participation in Divisional Review Meeting of Extension Division, ICAR	12-13 June, 2024
49	PM Kisan Samman Nidhi Programme	18.06.2024
50	Participation in online meeting for revise rates of FLDs/CFLDs on Oilseeds and Maize	05.04.2024
51	Virtual participation in XXV Meeting of Extension Council of IVRI as Special Invitee	05.04.2024

52	Participation in online ICAR- AUs Interaction meeting	06.04.2024
53	Participation in online ICAR- AUs Interaction meeting	13.04.2024
54	Participation in inauguration program of newly contracted Administrative Building of UPCAR Lucknow	15.04.2024
55	Participation in 4th Extension council meeting in BUAT Banda	29.04.2024
56	Participation in online ICAR- AUs Interaction meeting	04.05.2024
57	Participation in online Meeting on Ecoregional programme	10.05.2024
58	Participation in online ICAR- AUs Interaction meeting	11.05.2024
59	Participation in the Online Interface meeting on CFLDs n Krishi Mapper under the chairmanship of DDG (AE)	15.05.2024
60	Participation in online ICAR- AUs Interaction meeting	18.05.2024
61	Participation in online ICAR- AUs Interaction meeting	25.05.2024
62	Participation in meeting with Director, ICAR-IISR, Lucknow for dicussion of financial matters of IISR KVKs	29.05.2024
63	Participation in online meeting for Interaction with all KVKs for special project oilseed model village	30.05.2024
64	Online participation on Viksit Bharat meeting (Fisheries sciences)	30.05.2024
65	Participation in online meeting regarding procedure for release of funds under the central sector schemes (CSS)	31.05.2024
66	Participation in online ICAR- AUs Interaction meeting	01.06.2024
67	Online participation in 2nd round of meeting to review the ICAR-Institutes under the chairmanship of Secretary DARE & DG ICAR	07.06.2024
68	Participation in online ICAR- AUs Interaction meeting	08.06.2024
69	Online participation in Kisan Sarathi-CSC Interface meeting and KVK Portal meeting	12.06.2024
70	Participation in online ICAR- AUs Interaction meeting	15.06.2024
71	Participation in Fourth Extension Education Council meeting in RLBCAU, Jhansi.	22.06.2024
72	Participation in online ICAR- AUs Interaction meeting	29.06.2024
73	Online participation for preparation of 100 Days Action Plan and Five Year Targets hosted by ICAR New Delhi	1.07.2024
74	Review of Progress of 100 days Action Plan target of ICAR with KVKs of Uttar Pradesh	12.07.2024
75	96 th ICAR Foundation Day and Technology Day in New Delhi	16.07.2024
76	Independence Day Celebrations at ICAR-ATARI, Kanpur	15.08.2024
77	Tree Plantation Campaign under "Ek Ped Maa Ke Naam" on 29th August 2024	29.08.2024
78	Stakeholders Consultation on Transforming Agriculture Research- Enhancing Role of Private Sector	03.09.2024
79	Online Interaction with Directors ATARIs under the Chairmanship of DDG (AE)	10.09.2024
80	Participation in online meeting "Swachhta Hi Seva" under chairmanship of Secretary (DARE) & DG (ICAR)	11.09.2024
81	Hindi Pakhwada organized by ICAR-ATARI, Kanpur	13-27 Sept.

		2024
82	Brainstorming session on NGO KVKs organized by Div of Agril. Ext. ICAR, New Delhi	17.09.2024
83	Online participation in inception meeting with Agriculture Skill Council of India (ASCI)	12.07.2024
84	Participation in meeting of ATARI Directors in New Delhi under the chairmanship of DDG (AE)	16.07.2024
85	Participation in Regional Consultation of Science of Natural Farming in Lucknow	19.07.2024
86	(Tour) Participation in Regional Consultation of Science of Natural Farming (Lucknow)	19.07.2024
87	Participation in online meeting regarding Mapping of Saving Accounts of KVKs under code Krishonnati Yojana-4138code	26.07.2024
88	Participation in Online meeting on Collaborative Training Program of MANAGE, Hyderabad and AMITY University Hosted by Dr. Shahaji Phand	29.07.2024
89	Participation in Online meeting regarding Fund flow mechanism for different project from DA&FW under the chairmanship of ADG (AE)	06.08.2024
90	Online meeting regarding Registration of KVK on PFMS Portal under CFLD Oilseed, Pulses & CRM Project organized by ICAR-ATARI, Kanpur	07.08.2024
91	Online meeting for Discussion on 100 days activity by KVK organized by ICAR-ATARI, Kanpur	09.08.2024
92	Participation in Meeting to discuss the plans to curb paddy stubble burning in the ensuing harvesting season organized by DA&FW	13.08.2024
93	Online participation in meeting regarding '100 Days Program - Making it More Effective' under the chairmanship of DDG (AE)	13.08.2024
94	Online participation in preparatory meeting on "Ek Ped Maa Ke Naam" plantation event on 21st August 2024 creating momentum to Global Campaign	14.08.2024
95	Online Meeting with KVKs for Discussion on activities regarding 100 days action plan organized by ICAR-ATARI, Kanpur	27.08.2024
96	Online participation in Review of Pendency of Grievances on CPGRAM Portal	28.08.2024
97	Online review meeting of SCSP & TSP for the year 2024-25 organized by ICAR-ATARI, Kanpur	29.08.2024
98	Online participation in meeting regarding DDG AE's interaction with Directors of ATARIs and ADGs	04.09.2024
99	Participation in online Meeting of the Committee to assess/examine the proposals on Research & Development received	09.09.2024
100	Participation in online Meeting regarding Operationalization of TSA Hybrid Model in ICAR organized by ICT Unit	19.09.2024
101	Participation in CP Gram meeting Pending grievances in Department of Agriculture Research and Education	24.09.2024
102	Orientation of KVKs and ATARIs for PFMS regarding FOM project	24.10.2024
103	Convergence Platform (CP) Meeting of CSISA-KVK Network project	05.11.2024

104	3 rd RAC meeting of ICAR-ATARIs at Hyderabad	19-20 Nov., 2024
105	Meeting of iGOT for all the ICAR institutes	12.12.2024
106	Participation in the meeting on Natural Farming under the Chairmanship of Smt. Yogita Rana, Joint Secretary (INM), DA&FW	13.12.2024
107	Online 11 th IMC Meeting of ICAR-ATARI, Kanpur	17.12.2024
108	III rd Phase of X MDP organized by ICAR-ATARI, Kanpur	27-31 Dec., 2024
109	Online participation in Interaction meeting with ATARI Directors organized under chairmanship of DDG (AE)	03.10.2024
110	Online participation in KVK Impact Acceleration Series (Presentation 3) organized by ICAR-ATARI, Hyderabad	04.10.2024
111	Online meeting on Review of Skill Development Training Programme	04.10.2024
112	Online participation in review meeting regarding adoption of two villages by KVKs	04.10.2024
113	Online meeting on discussion on Institutional project entitled as " Livestock Feeding Practices in different agro-climatic zones of Uttar Pradesh" organized by ICAR-ATARI, Kanpur	07.10.2024
114	Online meeting on Release of funds under CFLD Oilseed and Pulses organized by ICAR-ATARI, Kanpur	08.10.2024
115	Online participation in RKVY Review Meeting	09.10.2024
116	Online participation in KVK Impact Acceleration Series (Presentation 4) organized by ICAR-ATARI, Hyderabad	10.10.2024
117	Online participation in Meeting with Finance Officers/AO PFMS and USB tips and solutions organized by AE Div, ICAR, New Delhi	15.10.2024
118	Online participation in KVK Impact Acceleration Series (Presentation 5) organized by ICAR-ATARI, Hyderabad	18.10.2024
119	Participation in Mega Farmers' day in Raebareli	25.10.2024
120	Online participation in KVK Impact Acceleration Series (Presentation 6) organized by ICAR-ATARI, Hyderabad	25.10.2024
121	Participation in CRM Project Meeting at CSSRI Karnal	26.10.2024
122	Online participation in KVK Impact Acceleration Series (Presentation 7) organized by ICAR-ATARI, Hyderabad	04.11.2024
123	Online participation in KVK Impact Acceleration Series (Presentation 8) organized by ICAR-ATARI, Hyderabad	08.11.2024
124	Participation in meeting of ICAR Regional Committee IV.	14.11.2024
125	Online participation in KVK Impact Acceleration Series (Presentation 9) organized by ICAR-ATARI, Hyderabad	14.11.2024
126	Online participation in KVK Impact Acceleration Series (Presentation 10) organized by ICAR-ATARI, Hyderabad	22.11.2024
127	Online participation in Meeting on Implementing FOM project and it's activities in Rabi season by KVKs under the chairmanship of DDG (AE)	29.11.2024
128	Online participation in KVK Impact Acceleration Series (Presentation 11) organized by ICAR-ATARI, Hyderabad	29.11.2024
129	Online meeting on Discussion on questionnaire based on Institutional	03.12.2024

	Project of "Livestock feeding Practices" organized by ICAR-ATARI, Kanpur	
130	Visit to KVK Varanasi to overview the activities of KVK	05.12.2024
131	Online participation in KVK Impact Acceleration Series (Presentation 12) organized by ICAR-ATARI, Hyderabad	06.12.2024
132	Online participation in KVK Impact Acceleration Series (Presentation 13) organized by ICAR-ATARI, Hyderabad	13.12.2024
133	Online participation in A talk on 'Best Practices for Project Formulation' by Dr Himanshu Pathak, Secretary DARE and DG ICAR	16.12.2024
134	Participation in Meeting for Financial Matter regarding CFLD Pulses	18.12.2024
135	Online participation in KVK Impact Acceleration Series (Presentation 14) organized by ICAR-ATARI, Hyderabad	20.12.2024
136	Online meeting of IRC 2024 to discuss the progress and action plan of different research projects of ICAR-ATARI, Kanpur	20.12.2024
137	Online participation in Meeting with Bayer and 7 ATARIs organized by Division of Agril. Ext. ICAR, New Delhi	20.12.2024
138	Online participation in NAAS Brainstorming Session on "Climate Adaptive Conservation of Aquatic Genetic Resources"	20.12.2024
139	Natural Farming workshop in Varanasi organized by ICAR-ATARI, Kanpur	22.12.2024
140	Online participation in KVK Impact Acceleration Series (Presentation 15) organized by ICAR-ATARI, Hyderabad	27.12.2024
141	Online participation in Meeting under the Chairpersonship of Secretary, DA&FW with Secretary (Agriculture) of all State/UTs regarding National Mission on Natural Farming	27.12.2024

Chapter-9

PROJECTS AND FLAGSHIP PROGRAMMES

This institute is handling National Programme and ICAR Flagship projects/programme. Detail achievements of programmes are given in Annex-II.

A) National programme

1. Cluster Frontline Demonstrations (CFLD) on Pulses and Oilseeds (DAC, GOI)
2. Crop Residue Management (CRM) Project (DAC, GOI)
3. Cereal Systems Initiatives for South East Asia (CSISA-KVK Network)
4. District Agro-Meteorology Unit (DAMU)
5. Natural Farming
6. Agril. Drone
7. Agriculture Skill Council of India (ASCI Programme)

B) ICAR Flagship Programme

1. Farmer FIRST (Farm, Innovations, Resources, Science and Technology)
2. Tribal Sub Plan/Knowledge system & Home Stead Agricultural Management in Tribal Areas and Scheduled Caste Sub Plan (TSP/KSHAMTA and SCSP)
3. National Innovation on Climate Resilient Agriculture (NICRA Project)
4. Mera Gaon Mera Gaurav (MGMG)
5. Nutrition-sensitive Agricultural Resources and Innovation (NARI)
6. ARYA programme

Achievements of different programmes:**(1) NICRA (National Innovations on Climate Resilient Agriculture)**

NICRA is aimed at making the farmers self reliant by use of climate resilient agricultural technologies and management of natural and manmade resources for sustaining agriculture in the era of climate change empowered by four modules of NICRA–natural resource management, crop production, livestock and Institutional Intervention. Scope also covers specific environment assessment and generating meaningful products from crop residues with different energy conversion process.

Technical Achievements:

Under different modules of NICRA total 11713 farmers were benefitted. In this project, total 4327 demonstrations were made under three modules namely NRM (326), Crop Production (3239) and Livestock & fisheries (762 demonstrations/836 animals) by covering an area of 260.9 ha, 1172.49 & 82.95 respectively.

Under Capacity Building module, total 156 training courses were conducted for 4206 farmers and under Extension Activities 209 programmes were organised by covering 7507 farmers.

Total 17 KVKs namely Kushinagar, Sant Ravidash Nagar (Bhadohi), Bahraich-I, Gorakhpur-I, Sonbhadra, Maharajganj, Basti, Jhansi, Hamirpur, Banda, Jalaun, Kanpur Dehat, Baghpat, Gonda-I, Chitrakoot, Kaushambi, Pratapgarh, are working on this project.

(2) ARYA (Attracting Rural Youths in Agriculture)

The main objective of this project is to -

- (i) To attract and empower the youth in rural areas to take up various Agriculture, allied and services sector enterprises for sustainable income generation and gainful employment in selected districts.
- (ii) To enable the Farm Youth to establish network groups to take up resource and capital intensive activities like processing, value addition and marketing and
- (iii) to demonstrate functional linkage with different institutions and stakeholders for convergence of opportunities available functional linkage with different institutions and stakeholders for convergence of opportunities available under various scheme/ program for sustainable development of youth

Technical Achievements

- (1) No. of entrepreneurial units established: **358** (mushroom production- 177, horticulture nursery: 20, poultry: 52, goat farming: 72, bee keeping: 11)
- (2) No. of training programs organized: 30 with 676 participants
- (3) No. of rural youth trained: 676

Total 10 KVKs namely Lucknow, Basti, Gorakhpur-I, Deoria, Varanasi, Saharanpur, Ghazipur-I, Pratapgarh, Kaushambi, Muzaffarnagar-I are working under this project.

(3) IFS (Integrated Farming System)

Integrated Farming System (IFS) commonly refers to agricultural systems coupled or integrated with livestock, fisheries etc. and this is also referred to as integrated bio-systems. In this system, there exists an inter-relation between the different farming enterprises and it highly emphasises on waste management or resource management in such a way that the waste from one enterprise becomes an input for another enterprise. It was popularized in the State because of the fact that it is highly feasible for small and marginal farmers which prevails over 82% of the total farming population in Uttar Pradesh.

Technical Achievements: IFS of different component combination were popularized through all the KVKs in Uttar Pradesh and there are 53 IFS units established spanning an area of 45.445 ha. Under IFS total 46 Demonstration and 94 trainings were conducted and 427 and 1540 farmers benefitted respectively in 2024.

Total 15 KVKs namely Kushinagar, Lalitpur, Varanasi, Mirzapur, Chitrakoot, Hamirpur, Hapur, Basti, Jaunpur-I, Siddharthnagar, Unnao, Banda, Kaushabhi, Bareilly, Hathras are working on IFS.

(4) TSP (Tribal Sub Plan)/ KSHAMTA (Knowledge system & Home based Agricultural Management in Tribal Areas)

This scheme is being implemented for tribal upliftment in Tribal dominated districts. In order to create awareness among farmers, various programme like FLD, OFT, trainings, seed production, planting material production, capacity building and extension activities are being organised by KVKs. Major goal of this programme is to improve the livelihood of tribal farmers. A brief achievements under TSP programme is as under -

Farmers Training (Courses: 84, Participants: 2622), (ii) Women Farmer Training (Courses: 19, Participants: 525), (iii) Rural youths (Courses: 15, Participants: 390), (iv) Extension Personnel (Courses: 2, participants: 33), (v) Involvement of farmers in (OFT: 17, FLD: 3517, mobile advisories: 1576 farmers), (vi) Participation in extension activities: 2654, (vii) Production of seed: 45q, (viii) Production of planting materials: 00 lakh, (ix) Production of Livestock strains: 18 lakh, Production of fingerlings (No. in lakh) 0.8 lakh, Soil testing: 187

A total of 11 villages were adopted under KSHAMTA programme. Also 3144 farmers are benefitted by providing 49 training programmes and 30 demonstrations under this programme.

Total 8 KVKs namely Chitrakoot, Lakhimpur Kheri, Sonbhadra, Balrampur, Bahraich, Jhansi, Mahoba, Lalitpur are selected for this project.

(5) SCSP (Scheduled Caste Sub Plan)

The main objective of the scheme is to give a thrust to family oriented schemes of economic development of SCs below the poverty line, by providing resources for filling the critical gaps.

Technical achievements: Following activities have been conducted under SCSP programme

- (i) Farmers Training: 765 and 18702 beneficiaries
- (ii) On farm trails: 537
- (iii) Frontline demonstrations: 5289
- (iv) Mobile advisories to the farmers: 47813
- (v) Participants in extension activities: 9688
- (vi) Production of seed: 253.35
- (vii) Production of planting material: 39364.09 lakh
- (viii) Testing of Soil, water, plant, manures samples: 4282

KVKs involved: 31 (Raebareli-2, Lucknow, Hardoi, Barabanki, Sonbhadra, Unnao, Jaunpur-II, Kaushambi, Chandauli, Mirzapur, Jhansi, Jalaun, Mahoba, Chitrakoot, Kanpur dehat, Azamgarh, Bahraich- I, Varanasi, Mau, Ghazipur - II, Ghaziabad, Bulandsahar, Lakhimpur kheri- I, Firozabad, Auraiya, Banda, Hardoi- II, Agra, Pratapgarh, Sultanpur-I, Azamgarh-II)

(6) Farmers FIRST Programme

In order to improve agricultural productivity and livelihood security of small and marginal farmers, ICAR has started the scheme in its selected research institutes. Under this scheme, work is done in the risk prone areas to increase production and productivity in participant mode and reduce the losses in agriculture with the help of agricultural scientists.

Technical achievements: During the year 2024, agricultural interventions covered 4,199 farm families across multiple domains, including Crop Production (No. of Demo. 1731 & Farm Families covered 1685), Horticulture (No. of Demo. 1656 & Farm Families covered 535), Livestock & Poultry (No. of Demo. 850 & Farm Families covered 729), and Integrated Farming System (No. of Demo. 683 & Farm Families covered 730). Total 1960 Extension Activities were also conducted which benefitted 6406 farmers.

Total 7 ICAR institutes namely ICAR-CISH, Lucknow, ICAR-IVRI, Bareilly, ICAR-IGFRI, Jhansi, ICAR-IIFSR, Meerut, ICAR-CIRC, Meerut, ICAR-IIPR, Kanpur, ICAR-IIVR, Varanasi are working on this project.

(7) CRM (Crop Residue Management)

Aim of this scheme, is to protect the environment from pollution, microbial flora and fauna of the soil and carbon deterioration by burning paddy, straw and husk especially in paddy and wheat growing areas, the residues are suppressed with the help of high-tech agricultural equipments such as happy seeder, paddy straw chopper/shredder/mulcher, reversible M B plough, zero till drill and rotavator and mixed in the field so that productivity of farm land may be improved and environment may be protected from the pollution.

Technical Achievements:

- (i) Total 107 awareness camps conducted and 10675 farmers were benefitted
- (ii) Total 33 training programmes organized and 979 farmers were benefitted
- (iii) Total 2569 demonstrations conducted covering an area of 1753.7 ha
- (iv) Schools and colleges students mobilized through essay competition, painting, debate etc. and 65 activities conducted by participation of 10079 students
- (v) Total 10 Kisan melas organized and 3981 farmers are benefitted
- (vi) Total 363 column/ articles published in newspaper and magazines
- (vii) 102 hoarding fixed at mandi/ roadside/ market/ schools/ petrol pump/ panchayat etc., 1645 posters/ banners placed at different location/ buses etc.
- (viii) Total 112667 publicity material such as leaflets/ pamphlets etc. distributed
- (ix) Total 123 made awareness through TV and radio
- (x) 30 exposure visits conducted by benefitting 1666 farmers
- (xi) Total 18 field days organized by participating 1191 farmers
- (xii) Total 83 advertisement published in print media

KVKs involved: 28 KVKs of Uttar Pradesh namely Azamgarh -I, Azamgarh-II, Bahraich- I, Bahraich- II, Barabanki, Bareilly, Bijnor, Bulandshahr, Chandauli, Etah, Etawah, Hardoi- I, Hardoi- II, Jaunpur- I, Jaunpur- II, Kanpur Dehat, Lakhimpur Khiri- I, Maharajganj, Mathura, Muzaffarnagar- II, Pilibhit, Raebareli- I, Raebareli- II, Rampur, Shahjahanpur, Saharanpur, Siddhartnagar, Varanasi are involved.

(8) DAMU (Distt. Agrometeorology Unit)

Agro meteorology is an important multidisciplinary subject. Hence, KVKs maintains Agromet observatories as well as Automated Weather station (AWS) and record Agro met observations at their centre to generate agro meteorological information for use in studies on crops, pests and diseases, soil, agro forestry, livestock, horticulture, agriculture physics, soil science, etc. Such data will help to study crop-weather relationship, relationship between crop weather and pest/ disease and develop region/ location specific agro met predictive models. KVKs are involved to deliver crop and location specific AAS to farmers at block level.

Technical achievements: Under DAMU KVKs achievements are as follows –

- Number of Ago. Advisory services (AAS): 2901
- Number of Farmer Awareness Programs (FAP) : 61

- Number of Trainings : 27
- Number of Bulletins : 1080
- Number of Whatsapp Messages: 6987
- Diagnostic Field visit : 98
- Radio & TV Talk: 25
- Number of Articles/News published in newspapers: 180

Total 20 KVKs namely Bhadoi, Kushinagar, Sonbhadra, Gorakhpur, Jaunpur, Azamgarh, Sidharthnagar, Balrampur, Chandauli, Kannauj, Fatehpur, Mainpuri, Bulandshahr, Shahjahanpur, Baghpat, Chitrakoot, Ghazipur, Lucknow, Agra, Etah are involved in this DAMU project

(9) Pulses Seed Hub Programme

For the purpose of maintaining self-sufficiency in seeds, ICAR has initiated for establishment of seed hubs of pulses in the year 2016, so that seed of improved varieties could be produced at agricultural farm and farmers fields and processed under the supervision of scientists and ensure availability at the appropriate cost. This scheme is very much beneficial in providing prices to the farmers more than market price or MSP along with bonus on the purchase of their seeds and making it available after processing. Under this scheme eight KVKs have been selected.

Technical Achievements: During 2024 total 327.57 quintal pulse seeds (black gram 5.25 q, green gram 69.56 q, chickpea 143.00 q, field pea 29.00 q, lentil 54.20 q and Pigeon pea 26.56) are produced by 8 seed hubs.

KVKs involved: 8 (Deoria, Hamirpur, Jalaun, Chitrakoot, Lalitpur, Mahoba, Fatehpur and Mirzapur)

(10) Skill Training Programme (ASCI)

Agriculture Skill Council of India (ASCI) working under the aegis of Ministry of Skill Development & Entrepreneurship (MSDE). ASCI works towards capacity building by bridging gaps and upgrading skills of farmers, wage workers, self-employed & extension workers engaged in organized / unorganized segments of Agriculture & Allied Sectors. Under this program, skill based training is being provided to farmers by registered trainers of KVKs. So that they can establish and set up their own business.

Technical Achievements: Under ASCI programme KVKs organised total 34 training programmes benefitting 280 participants on Agriculture Extension Service Provider, Agriculture Machinery Demonstrator, Animal Health Worker, Beekeeper, Broiler Farm Worker, Mushroom Grower, Nursery Worker, Organic Grower, Quality Seed Grower etc.

KVKs/ICAR Institutes involved: Under this programme total 42 KVKs and 6 ICAR institutes namely Bahraich, Basti, Varanasi, Siddharthnagar, Sonbhadra, Balrampur, Chandoli, Jaunpur, Fatehpur, Kanpur Dehat, Jhansi, Mahoba, Hamirpur, Jalaun, Lalitpur, Banda, Mathura, Bijnour, Saharanpur, Meerut, Muzaffarnagar, GB Nagar, Sultanpur, Mirzapur, Gonda, Chitrakoot, Allahabad, Pratapgarh, Unnao, Lucknow, Ghazipur, Sitapur-I, Kaushambi, Auraiya, Sitapur-II, Gorakhpur-II, IIPR, Kanpur, IISS, Mau, IGFRI, Jhansi, NBAIM, Mau, NBFGR, Lucknow, IVRI, Barielly are involved.

(11) NARI (Nutrition- sensitive Agricultural Resources and Innovation)

NARI is a flagship programme of AE division of ICAR which has been conceptualized to promote nutri gardens, biofortified crops and varieties and Nutri - thali. ICAR is working with the Ministry of women and child development to take the benefit of this project to farm women , farmers and other stakeholders across the country. following activities are being conducted under this programme on priority.

- Establishment of one nutri - garden in each KVK and its maintenance throughout the year.
- Conducting training programmes by each KVK involving 100 Aganwadi workers.
- Preparation of nutrition map of the district in terms of location specific commodities grown and development of different nutri thali recipies in consultation with experts and sharing the map and nutri thali recipes to stakeholders.

ICAR-ATARI has started NARI programme in all KVKs for empowerment of women farmers. During the year under report, following five major activities were taken place.

- Trainings (courses: 297, Participants: 7436)
- Extension programmes (Number 238, Participants: 7436)
- Nutritional Garden units established: 1430 and 2328 farmer benefitted
- Bio-fortified crops: 101 and 1218 farmers benefitted
- Value addition: 101 and 1642 farmers were benefitted.

(12) Natural farming

It is a diversified farming system that integrates crops, trees and livestock, allowing the optimum use of functional biodiversity. Natural Farming if done effectively enhances farmers' income while delivering many other benefits, such as restoration of soil fertility and environmental health, and mitigating and/or reducing greenhouse gas emissions. Natural Farming builds on natural or ecological processes that exist in or around farms. Keeping its needs & importance, this zone starts natural farming at 52 KVKs. In future 100% KVKs will be covered.

Technical achievements: Under Natural Farming KVKs achieved as follows –

- No. of awareness programme: 245 with 21482 participants
- No. of training programmes organized: 43 with 1874 participants
- No. of demonstrations organized at farms of KVKs: 395 with 768 farmers

Following total 52 host wise KVKs are involved in Natural farming in the first phase –

- ANDUAT, Ayodhya (13):** Bahraich-I, Basti, Ballia, Mau, Varanasi, Siddharthnagar, Ayodhya, Sonbhadra, Azamgarh-I, Barabanki, Chandoli, St. Kabir Nagar, Amethi
- BUAT, Banda (6):** Jhansi, Mahoba, Hamirpur, Jalaun, Lalitpur, Banda
- CSAUT Kanpur (7):** Fatehpur, Aligarh, Kannauj, Etawah, Farrukhabad, Kasganj, Raibareilly-II
- SVPuat, Meerut (9):** Bijnore, Budaun-I, Shahjahanpur, Meerut, Muzaffarnagar, Bulandshahr, Amroha, Hapur, Sambhal
- ICAR KVKs (5):** Bareilly, Lucknow, Kushinagar, St. Ravidas Nagar, Hardoi-II
- NGO & other KVKs (12):** Sultanpur-I, Mirzapur, Gonda-I, Chitrakoot, Allahabad, Pratapgarh, Unnao, Ghazipur-I, Etah, Kaushambi, Sitapur-II, Gorakhpur-II

(13) Cereal Systems Initiative for South Asia (CSISA)

The Cereal Systems Initiative for South Asia (CSISA) was initiated in 2009 with a goal of benefiting more than 8 million farmers by the end of 2022. The project is led by the International Maize and Wheat Improvement Center (CIMMYT) and implemented jointly with the International Food Policy Research Institute (IFPRI), the International Rice Research Institute (IRRI) and the International Water Management Institute (IWMI).

Technical Achievements: Under CSISA 275 farmers benefited through 47 activity conducted on 4 different programme plantation paddy up pulling & DSR (21 & 21), Training (5 & 125) and Kisan Mela (2 & 150).

(14) MGMG (Mera Gaon Mera Gaurav)

An innovative initiative “Mera Gaon Mera Gaurav” has been planned to promote the direct interface of scientists with the farmers to hasten the lab to land process. The objective of this scheme is to provide farmers with required information, knowledge and advisories on regular basis by adopting villages. The participation of small and marginal farmers in Indian agriculture is very important. Small farmers put forth their desire on various forums to have timely information on investment in agriculture, loans, availability of other basic amenities, market rates, extension activities and facilities provided by different agencies, new research findings and technologies, etc.

Technical achievements: Total no. of groups or team formed-62, Number of Scientists involved-275, Number of village's covered-345, Number of field activities conducted 301, Number of messages / Advisory sent-502, Number of Farmers benefitted -2825.

Total 13 ICAR institutes and DU namely ICAR-IISR Lucknow, CISH Lucknow, C.S.S.R. Lucknow, SHUATS Allahabad, B.H.U. Varanasi, PDDSR Mau, I.I.P.R. Kanpur, CAFRI Jhansi, I.G.F.R.I. Jhansi, BPKS Almora, IISWCRT Agra, CARI Bareilly, IVRI Bareilly and NBAIM Maunath Bhanjan are working on MGMG project.

(15) Rainwater Harvesting Structures (RHS)

Rainwater harvesting structures were developed at 35 KVKs with the purpose that it provides water availability when a drought occurs, can help mitigate flooding of low-lying areas, and reduces demand on wells which may enable groundwater levels to be sustained. Rainwater harvesting increases the availability of water during dry seasons by increasing the levels of dried bore wells and wells.

Technical Achievements: Under RHS, Training programmes (25), demonstrations (12), planting materials produced (75600), visit by farmers (18300), visit by officials (145).

Total 35 KVK namely Agra, Aligarh, Amroha, Baghpat, Bijnor, Budaun, Bulandshahr, Chitrakoot, Etah, Fatehpur, Firozabad, GB Nagar, Ghaziabad, Hapur, Hathras, Jaunpur, Kannauj, Kanpur Nagar, Kasganj, Kaushambi, Mahoba, Mainpuri, Mathura, Meerut, Mirzapur, Moradabad, Muzaffarnagar, Pratapgarh, Prayagraj, Rampur, Saharanpur, Sambhal, Sant Ravidas Nagar, Shamli, Varanasi are included in Jal Shakti Abhiyan and covering 139 blocks.

16) Drone Project

In order to boost and promote precision farming in India, the Union Ministry of Agriculture and Farmers Welfare has issued guidelines to make drone technology affordable to the stakeholders of this sector. The drones can help farmers increase production through

prevention of environmental degradation; effective monitoring of crop health; getting insights into the soil health; planning irrigation and the proper use of available resources. The guidelines of “Sub-Mission on Agricultural Mechanization” (SMAM) have been amended which envisages granting upto 100% of the cost of agriculture drone or Rs. 10 lakhs whichever is less, as grant for purchase of drones by the Farm Machinery Training & Testing Institutes, ICAR institutes, KVKs and State Agriculture Universities for taking up large scale demonstrations of this technology on the farmers’ fields. Keeping the view of its importance this zone initiated to use drones at KVKs/SAUs/ICAR Insitutes and promoting farmers to its use also.

Total 32 drones have been sanctioned in this zone.

Technical achievements: (i) Area (ha) and its demonstrations by kisan drone : 1500 ha, (ii) No. of farmers participated : 6500.

In the initial phase following 10 KVKs, 4 SAUs and 11 ICAR institutes are included in the drone project.

- 10 KVKs (Bijnor, Shamili, Bahraich-I, Lucknow, Bareilly, Agra, Sitapur-II, Lalitpur, Chitrakoot & Mirzapur)
- 4 SAUs (SVPUAT, Meerut, ANDUAT, Ayodhya, CSAUAT, Kanpur, RLBCAU, Jhansi)
- 11 ICAR Institutes (IISR, Lucknow; IVRI, Bareilly; IGFRI, Jhansi; IIPR, Kanpur; IISS, Mau; NBFGR, Lucknow, CISH, Lucknow; IIVR, Varanasi; IIFSR, Meerut; CARI, Jhansi and CIRG, Mathura)

(17) SBA (Swachha Bharat Abhiyaan)

Swachh Bharat Abhiyan is being organised every Saturday in all KVKs and ICAR-ATARI, Kanpur under which awareness regarding cleanliness is being created among common public so that they can understand their responsibility towards cleanliness. Under this programme all 89 KVKs worked on total 130 adopted villages including their office campus. Major works included in this programmes are - Cleaning of village, Drainage, Road, Campaign for swachhta action plan in village, Nukar natak for swachhta, In rural areas nearby KVK campus the training has been given to the farmers about cleaning and their importance for healthy environment, Awareness campaign on cleanliness, Awareness campaign on water management, Awareness campaign on Waste management, To create awareness camp in school & village, Create awareness about Vermi compost and NADEP, Awareness programme on Cleanliness, Training on Crop residue management and animal Waste management, Training Kitchen waste management, introduction of waste decomposer techniques in adopted village, to aware the farming community regarding Swachhta Abhiyan, To aware the school children regarding the use of safe water for drinking, to aware the cleaning of houses and surrounding, training Kitchen waste management, awareness programme conducted at village level for cleaning around house of farm families, management of decomposable waste by converting it in compost, awareness programme for school students.

Technical Achievements:

No. of programmes and their participation is given below :

(i) Toilet maintenance (168 ,1406) (ii) Road, drain cleaning(448 ,6072) (iii) Garbage disposal(322, 2988), (iv) Door to door awareness(362, 6087), (v) Awareness campaign(413,13499), (vi) Nookkad Drama(479, 384), (vii) School Drama(575 , 606), (viii) School rally(382,5255), (ix) Writing paining slogans(247,1241), (x) Composting(232, 1944),(xi) Other(267, 2820).

WOMEN EMPWERMMENT IN AGRICULTURE

10.1 INTRODUCTION

Women constitute almost 50% of the world's population. As far as their social status is concerned, they are not treated as equal to men in all the places. In the Western societies, the women have got equal right and status with men in all walks of life. But in India gender disabilities and discriminations are found even today. The economic empowerment of women is very important as they can play vital role in economic development of the country. But before empowering women, it is important to maintain the health status of farm women and reduces malnutrition among women. In Uttar Pradesh, network of 89 KVKs are actively involved in organising various trainings, frontline demonstration, and on farm trials to empower women farmers, rural girls and women extension personnel with knowledge and skills related to latest technologies of agriculture, home science and other allied area. So that they can contribute equally with their male counterparts. Various programmes are being organised to maintain the nutrition and health status of farm women, reduce the drudgery and addressing malnutrition.

10.2 TRAINING OF FARM WOMEN/ RURAL GIRLS AND EXTENSION FUNCTIONARIES

A range of courses (855) related to women empowerment were organized with the participation of 15959 farm women. Value addition (135) attended by highest number of farm women (2777) followed by Household food security by kitchen gardening and nutritional gardening courses (148) were attended by farm women (2738), women and child care (82) attended by (1475) farm women, etc. The farm women also showed interest in courses like storage losses, gender mainstreaming through SHGs, processing & cooking, rural craft, developing high nutrient efficient diet, drudgery reduction, diet related courses, etc. were also conducted (Table 10.2).

Table- 10.2 Training of Farm Women on Women Empowerment

S.No.	Areas of training	No. of Courses	Female
1.	Household food security by kitchen gardening and nutrition gardening	148	2738
2.	Design & development of low/ minimum cost diet	61	1022
3.	Development of high nutrient efficiency diet	73	1406
4.	Minimization of nutrient loss in processing of fruits	55	780
5.	Processing & cooking of cereals and pulses	36	676
6.	Gender mainstreaming through SHGs	39	711
7.	Storage loss minimization techniques	50	925
8.	Value addition in fruits	135	2777
9.	Women empowerment through skill development	62	1329
10.	Location specific drudgery reduction technologies	39	777
11.	Rural crafts	25	449
12.	Women and child care	82	1475
13.	Others	50	894
	Total	855	15959

10.2.1 TRAINING OF FARM WOMEN ON AGRICULTURAL RELATED ENTERPRISES

Under trainings for farmers and farm women category, total of 6297 courses were conducted by KVKs of the Uttar Pradesh with the participation of 29222 farm women. Maximum courses were related to crop production (1406) and women participants (5639). The other areas of trainings were horticulture (1224 courses and 5090 women participants; livestock production management (852 courses and 4541 women participants); women empowerment (855 courses and 15959 women participants); soil health and fertility management (719 courses and 3792 women participants); agricultural engineering (263 courses and 1398 women participants); plant protection (732 courses and 2927 participants); fisheries (230 courses and 1346 women participants); production of input at site (293 courses and 1355 women participants); capacity building & group dynamics (416 courses and 2375 women participants) and agro forestry (162 courses and 759 women participants), (Table 10.2.1).

Table-10.2.1 Training of Farm Women on Different Aspects of Agriculture

S.No.	Area of training	No. of Courses	Female
1.	Crop Production	1406	5639
2.	Horticulture	1224	5090
3.	Soil Health & Fertility Management	719	3792
4.	Livestock Production & Management	852	4541
5.	Home Science/ Women empowerment	855	15959
6.	Agril. Engineering	263	1398
7.	Plant Protection	732	2927
8.	Fisheries	230	1346
9.	Production of Input at site	293	1355
10.	Capacity Building & Group Dynamics	416	2375
11.	Agro forestry	162	759
	Total	6297	29222

(i) Crop Production

With respect to crop production, 1406 training courses were organized in Uttar Pradesh with the participation of 5639 farm women. Integrated crop management related 208 courses were organized in which 579 farm women participated; followed by 191 courses on weed management (805) women participants, 169 on seed production (735) women participants, 128 courses on RCT with 666 women participant. The other important areas like cropping systems, crop diversification, integrated farming, integrated nutrient management, nursery management, production of organic inputs, etc. were also taken up.

(ii) Horticulture

Training on production technologies of vegetables, fruits, ornamental plants, plantation crops, tuber crops, spices and medicinal plants were organized. 633 courses on vegetables involving 2888 and 347 courses on fruit with the participation of 1470 were held. Similarly, in case of ornamental plants 102 courses organized with participation of 338 women. In the area of plantation crops, tuber crops, spices, medicinal & aromatic plants 25, 38, 45 and 34 courses were organized with participation of 139, 89, 101 and 65 farm women.

(iii) Soil Health and Fertility Management

Total of 719 courses were attended by 3792 farm women. The courses in the area of soil fertility management (105), integrated nutrient management (137), soil & water testing (92), production & use of organic inputs (78), balanced use of fertilizer (62) and micro-nutrients deficiency in crops (56), nutrient use efficiency (44), etc. were organized with the objectives to create awareness, knowledge and skill among farmers to address various issues. These trainings involved 533, 525, 597, 440, 371, 257 and 298 farm women respectively were benefitted.

(iv) Livestock Production Management

All together 852 courses were organized with the participation of 4541 farm women participants. The courses related to dairy management (187) were organized with the participation of 991 women cattle owners. Disease management (174) was second preferred programme attended by 991 women participants. Feed and fodder management, animal nutrition, poultry, quality animal products, etc were other priority areas.

(v) Agricultural Engineering

Total of 263 courses in various aspects related to farm machinery, implements and its maintenance, post harvest and value addition were organized by KVKs, benefiting 458 farm women. Maximum courses on repair & maintenance of farm machinery & implements (69) were organized benefiting 491 women. Newer areas like installation and maintenance of micro irrigation system, use of plastics, small tools, etc. were also taken up in training programmes.

(vi) Plant Protection

Under Plant Protection total 732 courses were organized with the participation of 2927 farm women. The highlights of these programmes and others each course were on IPM (309), IDM (180), bio control of pests and diseases (93), production of bio control agents & bio pesticides (67).

(vii) Fish Production

The courses on integrated fish farming (35) and composite fish culture (45) were mainly organized with the participation of 289 and 281 farm women respectively. Overall 230 courses attracted participation of 1346 persons.

(viii) Production of inputs at site

Total 293 courses were organized on this theme and 1355 farm women attracted towards this theme. Seed production, vermi composting, bio-fertilizer production and organic manures attracted maximum women participation.

(ix) Capacity Building and Group Dynamics

416 courses were organized benefiting 2375 farm women. The topics covered in the programmes included leadership development, group dynamics, SHGs, entrepreneurship development, WTO & IPR, etc.

(x) Agro-forestry

In this area, 162 courses were organized benefiting 759 farm women. The topics covered in the programmes included production technology, nursery management, integrated farming systems, etc.

10.2.2 TRAINING OF RURAL GIRLS

Total of 998 courses involving 5720 rural girls were conducted. The highest participation of 684 rural girls was attracted towards the programmes like value addition (46), followed by nursery management of horticultural crops (136) with participation of 544 rural girls, mushroom production (97) with participation of 522 rural girls, rural crafts (24), sheep and goat rearing (62), seed production (88), dairying (46), poultry (43), organic inputs production (50), training and pruning of orchards (16) and vermi culture (32). Other courses viz protected cultivation, commercial fruit production, planting material production, bee keeping, etc were preferred by the rural girls. Similarly, livestock and fisheries, crop production and management and post harvest management related programmes were also organized (Table 10.2.2).

Table- 10.2.2 Training of Rural Girls

S.No.	Areas of training	No. of Courses	Female
1.	Nursery Management of Horticulture crops	136	544
2.	Training and pruning of orchards	16	35
3.	Protected cultivation of vegetable crops	30	122
4.	Commercial fruit production	45	157
5.	Integrated farming	36	108
6.	Seed production	88	389
7.	Production of organic inputs	50	206
8.	Planting material production	13	94
9.	Vermi-culture	32	145
10.	Mushroom Production	97	522
11.	Bee-keeping	56	157
12.	Sericulture	4	27
13.	Repair and maintenance of farm machinery & implements	23	44
14.	Value addition	46	684
15.	Small scale processing	11	116
16.	Post Harvest Technology	15	119
17.	Tailoring and Stitching	19	335
18.	Rural Crafts	24	432
19.	Production of quality animal products	12	114
20.	Dairying	46	224
21.	Sheep and goat rearing	62	396
22.	Quail farming	3	29
23.	Piggery	11	31
24.	Rabbit farming	5	11
25.	Poultry production	43	210
26.	Composite fish culture	12	71
27.	Freshwater prawn culture	1	3
28.	Pearl culture	1	0
29.	Cold water fisheries	1	0
30.	Fish harvest and processing technology	4	56
31.	Fry and fingerling rearing	6	3
32.	Other	50	336
	TOTAL	998	5720

10.2.3 TRAINING OF WOMEN FUNCTIONARIES

Total of 984 courses involving **5434** extension personnel were organized by the KVKs of Uttar Pradesh. Major areas in which extension personnel were trained were productivity enhancement in field crops (217), integrated pest management (113), INM (86), production of organic inputs (56), livestock feed & fodder (48), women & child care (58) etc. Details are shown in Table 10.2.3.

Table-10.2.3 Training for Extension Personnel

S.No.	Areas of training	No. of Courses	Female
1.	Productivity enhancement in field crops	217	221
2.	Integrated Pest Management	113	136
3.	Integrated Nutrient management	86	222
4.	Rejuvenation of old orchards	27	60
5.	Protected cultivation technology	45	148
6.	Production and use of organic inputs	56	150
7.	Care & maintenance of farm machinery & implements	23	46
8.	Gender mainstreaming through SHGs	20	227
9.	Formation and Management of SHGs	26	255
10.	Women and Child care	58	1012
11.	Low cost and nutrient efficient diet designing	37	681
12.	Group Dynamics and farmers organization	6	84
13.	Information networking among farmers	11	69
14.	Capacity building for ICT application	20	47
15.	Management in farm animals	51	213
16.	Livestock feed and fodder production	48	52
17.	Household food security	33	602
18.	Other	107	1209
	Total	984	5434

10.3 NARI PROGRAMME (Nutri-sensitive Agricultural Resources and Innovation)

Nutri-Sensitive Agricultural Resources and Innovations (NARI) Programme is a flagship program initiated by ICAR at national level. Nutrition-sensitive agriculture is an important part of ending malnutrition through multi-sectoral action. Nutrition-sensitive agriculture puts nutritionally rich foods, dietary diversity, and food fortification at the heart of overcoming malnutrition and micronutrient deficiencies. This approach stresses the multiple benefits derived from enjoying a variety of foods, recognizing the nutritional value of food for good nutrition, and the importance and social significance of the food and agricultural sector for supporting rural livelihoods. The overall objective of nutrition-sensitive agriculture is to make the global food system better equipped to produce good nutritional outcomes. Nutrition-sensitive agricultural approach through homestead nutrition garden aims to make food more available, accessible, diverse and nutritious. SMS Home science along with other subject matter specialists are conducting various activities for benefitting women farmers, children and other family members under this program.

During 2024, KVKs conducted, technology demonstrations, trainings and various extension activities under NARI program. A total of 1430 nutri-gardens were established with 2328 farm women families were benefited under FLD and OFT activity.

Similarly, demonstrations were conducted on nutri-rich bio-fortified varieties of different 101 crops (cereals, millets, oilseeds, pulses, tubers, vegetables and fruits) to improve nutritional status to the farming community benefited 1218 women farmers. KVKs also conducted 101 demonstrations on value addition of different crops viz cereal, millets, vegetables and fruits and 1642 farm women were benefited.

KVKs organized different training program and extension activities under different areas like Promotion of Nutritional Garden, Nutri-*thali*, Value addition, Bio-fortified crops, etc. Total 297 training programs were organized benefitted 7436 participants and 238 extension activities were organized benefitted 13985 participants at farmers fields for creating awareness on nutrition literacy (Table 10.3.1).

Table-10.3.1 Various program organized under NARI during 2024

ICAR ATARI	Nutritional Garden		Bio-fortified crops/variety		Value addition		Training programmes		Extension activities	
	No of Establish ed	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers
Zone-III Kanpur (41 KVKs)	1430	2328	101	1218	101	1642	297	7436	238	13985

Under this program total 13 bio-fortified crops were used for nutritional security. Total 209.05 ha area was used by benefitting 939 women farmers under various biofortified crop. Details are given in following Table 10.3.2.

Table-10.3.2 Details of demonstrations organised on bio-fortified varieties

Category	Bio Fortified Crop	Variety	Area (ha)	No. of partner farmers/farm women
Cereal	Rice	CR Dhan 310, HUR 917, Zinco Rice MS/ DRR 45, HUR 917	13.00	37
Cereals	Wheat	DBW 187, DBW-303, HD-3298, DBW-332, WB 2, K-1006, HI-8759	150.20	664
Millet	Finger millet	ML 365, VL-376,	5.00	25
Millet	Pearlmillet	RD-2907, AHB-1200, MPMH 21, HHB-311	12.24	33
Millet	Barnyard millet	DHBM 93-2	0.50	5
Millet	Sorghum	CSV 15	4.50	25
Pulses	Lentil	Pusa Masoor Ageti	10.00	25
Oilseed	Mustard	PM-31, PM-33	12.20	47
Vegetable	Palak	Vilayti Palak	0.001	10
Tuber	Potato	Kufri Neel kanth	0.005	5
Vegetable	Cauliflower	Pusa Beta Kesari-1	0.40	43
Vegetable	Moringa	PKM-1	1.00	10
Vegetable	Radish	Pusa Jamuni	0.001	10
Total			209.05	939

10.4 SUCCESS STORIES

10.4.1 Success story of a Mushroom Grower

Background: Mushrooms are popular valuable foods because they are low in calories, carbohydrates, fat, and sodium, they are also cholesterol-free. Besides, mushrooms provide important nutrients, including selenium, potassium, riboflavin, niacin, vitamin D, proteins, and fiber. It is also known to have medicinal value and certain varieties of mushrooms can inhibit growth at cancerous tumor. Leisure time can be utilized effectively by involving in mushroom cultivation enterprise. Mushroom production is labour and management intensive. There is ample scope for mushroom industry to thrive successfully and can become a lucrative business for the unemployed rural youth and self-help groups etc. Mushroom cultivation is an eco-friendly activity, as it utilizes the wastes from agriculture which are available in huge quantities in every corner of the state and in turn produces fruiting bodies with excellent nutritional and medicinal attributes.

Introduction: Mrs. Suman Kumari (35), w/o Mr. Arvind Kumar, B.Tech. (Mechanical Engg) is involved in mushroom production from last 4 years. She resides at Gaura Khas village of Jakhania block in Ghazipur district. Before starting mushroom cultivation, she was a simple house wife. But her husband faced loss in his business during corona pandemic period. Then she thought of doing something new independently at her native place and suggested her husband to do farming after that her husband returned to his village. One day they visited Krishi Vigyan Kendra, P.G College, Ghazipur and met with plant protection scientist Dr. Omkar Singh. During the meeting Dr. Omkar Singh motivated Mrs. Suman Kumari and Mr. Arvind Kumar to start mushroom cultivation at their own farm. Thereafter Mrs. Suman Kumari and Mr. Arvind attended three-day training on mushroom cultivation at Krishi Vigyan Kendra, P.G College, Ghazipur in 2021-22. And they learned all practical tactics at KVK, Ghazipur. After completing the training, they established their mushroom production unit at their residence. Initially, they started producing button mushroom in small scale by getting spawn from KVK, PG College Ghazipur. Later they established their controlled condition (fully air condition) mushroom production unit in a bigger way by utilizing Mr. Kumar's previous skill and experience being a mechanical engineer.

Outcome: Initially they used to produce 135 kg of mushroom in a season (uncontrolled condition). After training and guidance from Dr. Omkar Singh, Krishi Vigyan Kendra, P.G College, Ghazipur, they are now producing 6-7 quintals of mushroom per crop and 7-8 crops per year (total 45 quintals in controlled condition). Now they are selling fresh mushroom both locally and sending to nearby districts i.e. Azamgarh, Varanasi, Mau, Chandauli etc. Mrs. Suman is also producing oyster mushroom.

Impact: Now she has started to sell fresh mushroom in different melas organized by Government Organizations and NGO's. She started to give trainings to different SHG's members and farmers. After getting training from her, 3-4 members have also started producing mushroom in a small scale.

Economic gains: By selling mushroom monthly she is getting an income of Rs 4,04,000/year. She also created employment opportunity to 2-3 members. In future, she is planning to start value addition in terms of dried mushroom powder and other value added products. After getting training from KVK and utilizing her husband's skill now she has become entrepreneur and mushroom production is the main source of income to her family.

Table 1: Production and Income Details Before and After training programme form KVK

	Year	Mushroom Production (kg)	Annual Income (Rs)	Net Return (Rs)	B:C Ratio
First Year (Uncontrolled)	2021-22	135	16600	6400	1.69
Second Year (Controlled)	2022-23	4500	404000	232000	2.34



Button Mushroom Cultivation

10.4.2 Kitchen Gardening: Improve Nutritional Security and Supplements House hold Income.



Introduction

Kitchen gardens are cost-effective, practical and easily meet the balanced dietary requirements of rural households as well as add substantially to the family income. Crops are selected considering the prevailing food habits and climatic conditions of the implementation areas, and with the larger goal of ensuring availability of wholesome and nutritious food.

In 2022, Krishi Vigyan Kendra, babugarh conduct Front Line Demonstration on Kitchen Garden. In these demonstrations distribute seeds and planting material of 10 types of vegetables.

Smt. Sadhana, a progressive farm woman of kitchen garden initiative and a resident of Atuta Village in Hapur District says, “Apart from an increase in income, the kitchen garden initiative also helped me to ensure food security and improve the nutrition status of my family. Regular intake of nutrient rich vegetables like Bhindi, Lauki and Kheera increase energy levels and efficiency in work.”

KVK Intervention

Krishi Vigyan Kendra promote through small kitchen garden (150 sqm) with an aim to improve nutrition security and supplement house hold income. Motivate farm women through training, lecture and practical work to adopt Kitchen Garden.

Output

Particulars	Yield (q/ha)	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	Net Return (Rs./Unit)	B:C Ratio	Other Parameters
Demonstration	258.7	636	8174	7538	12.9	Availability of maximum fresh veg.
Local Check	97.3	369	1902	1533	5.15	Availability of least fresh vegetable

Economic Benefits : Kitchen gardens help to increase household income either by sale of the food products grown in the gardens or by the consumption of the same food items that the families would have otherwise purchased from markets using a significant portion of the family income. Krishi Vigyan Kendra provided vegetable seeds and planting materials to 15 families. The vegetables in the kitchen garden harvested for approximately 75-80 DAS, saving Rs 60 per day for each family on an average. This ultimately led to a saving of approximately Rs 7538 per family.

Social Benefits: Kitchen gardens directly contribute to household food security by increasing availability, accessibility, and utilization of food products. Food items produced in kitchen gardens add to the family nutrition substantially, which directly leads to reduction of food insecurity.

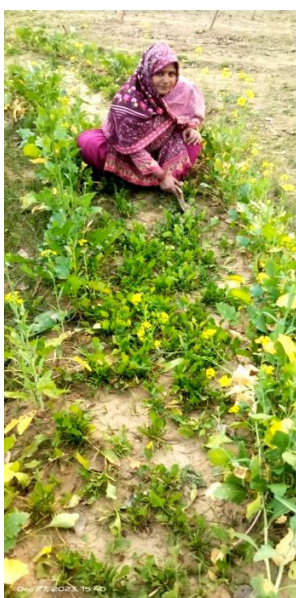
Women Empowerment: Kitchen gardening helped women to develop proficiency in vegetable cultivation to some extent, which in turn helps them become better home and environment managers and meet the needs of their families more easily and economically. This enhances their

status within the family and in the society at large as well. Kitchen gardens can also be a very good option for pregnant women who are not supposed to do heavy manual field work or spend long hours with insufficient food intake in order to ensure physical safety of the mother and the child. Additionally, the new-born infants need regular breast-feeding and attention. After six months, a child needs more than breast milk alone and complementary foods need to be provided. Being at home during these months, investing time in kitchen gardening, thus provides women with income generation to some extent; also, nutrient rich kitchen garden products have the potential to ensure food and nutritional safety of growing children.

Environmental Gains:

Majority of the households, who are progressive farm woman of kitchen garden initiative in Atuta use organic methods of cropping including organic manure. Lesser dependence on chemical fertilizers and pesticides automatically makes kitchen gardening an environment friendly initiative. In addition to this, kitchen gardens provide environmentally sound opportunities for waste disposal. Composting is commonly used for household wastes including kitchen waste, paper, and even animal waste, which are used to enrich the soil.

Kitchen gardens serve as an eco-friendly and sustainable agricultural practice to improve food security and enhance economic growth of rural households in Atuta Village. In times of increasing food prices, the kitchen gardening practice has the potential to directly address the areas of nutrition and food security, income generation and an alternate livelihood creation for the household as well as empowerment of women, in the long run, in rural areas.



10.4.3 Goat farming: Source of Income Generation

Introduction

Ms. Kalpana, 29 years old urban youth is resident of Sanjay nagar, Bareilly. After completing graduation, she started preparing for government job. In order to support her education and provide financial help to her father Shri. Rameshwar dayal, she visited KVK bareilly along with her father with plan to start goat farming.

KVK Intervention : KVK, bareilly motivated Ms. Kalpana to attend training and learn the scientific practices in goat farming. In the year 2022, Ms. Kalpana participated in the training on “Goat Management” organized by the KVK, bareilly and started backyard goat farming with 05 female and 01 male desi goat. KVK, Bareilly conducted field visit, provided handholding support under the FLD program and tele-consultancy services to her as and when required. All this helped her realize the importance of goat health management, low cost production and good marketing for income generation.

Outcome: She shifted her farm to leased land in the village for best management of goats in cost effective manner. Earlier, she was rearing desi breeds which were black colored; however she realized that the demand of barbari/ sirohi is more and traders are willing to pay more for these breeds during the festivals/Eid. So, she is now replacing the stock with the Barbari breed. She allows 6-7 hrs of grazing and prepare the concentrate feed at home. In order to prevent indiscriminate breeding in the goat flock, male kids are castrated.

Output: In the year 2024, Ms. Kalpana maintained 34 goats (including desi and barbari breed) at her farm. She was able to sale 09 goats from her farm @ INR 75,000 and earned net income of INR 34,000.

Impact: With support of KVK and experience gained over time in goat farming, Ms. Kalpana has now become more confident and feel empowered as she is now able to provide financial support to her father. KVK, bareilly also appreciated her efforts during the Kisan Diwas in the year 2023. She sees good scope of generating income from goat farming and thus wants to scale up the operation for financial security.



Chapter-11

STATUS OF INFRASTRUCTURE, STAFF & BUDGET**11.1 INSTRUCTURE FACILITIES AT KVK**

Most of KVKs are having their own infrastructure facilities, in Uttar Pradesh availability of infrastructure are Administrative Building (68), Farmers Hostel (59), Staff Quarters (59), Soil Testing Labs (44), Soil Testing Kits (104), IFS (26), Demo Units funded by ICAR (240), Demo Units funded by others (61), e-connectivity (26), Technology Information Unit (23) and Four wheeler (87), Two wheeler (70), Tractor (81). Physical status of infrastructure facilities at a glance are shown in following Table 12.1.

Table 11.1: Physical status of infrastructure at a glance

S. No.	Name of Infrastructure	Host Institutions								Total KVKs (89)
		SAUs					ICAR KVKs	CU BHU	NGO/ Other KVKs	
		NDUAT, Ayodhya	BUAT, Banda	CSAUAT, Kanpur	DUVASU, Mathura	SVPUAT, Meerut				
		(25)	(7)	(15)	(1)	(20)	(7)	(1)	(13)	
1.	Administrative Building	16	6	14	1	12	5	1	13	68
2.	Staff Quarter	16	5	10	1	13	3	1	10	59
3.	Farmers Hostel	15	3	11	1	13	4	1	11	59
4.	Threshing Floor	15	2	5	1	13	0	1	5	42
5.	Tube well	17	6	13	1	13	5	1	11	67
6.	Drip Irrigation	6	-	1	-	-	5	-	3	15
7.	S&W Testing Lab	14	2	5	1	10	2	1	9	44
8.	Fencing	13	2	9	1	13	3	1	8	50
9.	Soil Testing Kit (Proc.)	6	12	27	1	23	4	3	28	104
10.	Rain Water Harv. Stru.	-	-	-	-	1	-	-	3	4
11.	Demo Units (ICAR)	71	12	33	4	41	21	1	57	240
12.	Demo Units (Others)	22	6	11	1	10	-	2	9	61
13.	IFS	1	6	1	1	6	4	-	7	26
14.	Minimal Processing fac.	-	-	-	-	-	-	-	1	1
15.	e-Conn. (ERNET)	-	6	1	1	7	3	1	7	26
16.	Carp Hatchery	-	-	-	-	-	-	-	3	3
17.	Solar Panel	3	2	4	-	-	1	-	1	11
18.	Tech. Inf. Unit	-	4	-	1	10	2	-	6	23
19.	Micro Nut. Facility	-	-	-	-	-	-	-	-	0
20.	Mini Seed Proc. Facility	-	-	-	-	-	-	1	3	4
21.	Four Wheeler	25	7	13	1	20	7	1	13	87
22.	Two Wheeler	21	4	14	1	14	2	1	13	70
23.	Tractor	23	6	14	1	19	5	-	13	81
24.	Agri Drone	1	1	-	-	2	-	-	3	7
25.	Genset	-	1	1	-	2	2	-	1	7

11.2 STATUS OF STAFF POSITION

11.2.1 Staff position of ICAR-ATARI, Kanpur

ICAR-ATARI, Kanpur have filled up 12 staff personnel out of total 20 vacancies. Post of RMP is filled. Out of 6 sanctioned positions in scientific cadre, 3 positions (2 Sr. Scientist and 1 Scientist) are filled up. 1 Principal Scientist, 1 Sr. Scientist and 1 Scientist positions are lying vacant. Out of 9 positions in administrative cadre, 5 are filled up and 4 positions (PS-1, Assistant-1, LDC-1, Steno-1) are lying vacant. 1 Skilled Support Staff is filled and 1 post is vacant. Position wise details are given in following Table 12.2.1.

Table 12.2.1: Status of staff position in ICAR-ATARI, Kanpur

Sr.No.	Positions	Sanctioned	Filled	Vacant	Discipline of Vacant Post
1	RMP	1	1	0	-
2	Principal Scientist	1	0	1	Agril. Extension
3	Sr. Scientist	3	2	1	Agril. Extension
4	Scientist	2	1	1	Agril. Extension
5	Technical	2	2	0	-
6	Administrative	9	5	4	PS-1, Assistant-1, LDC-1, Steno-1
7	Supporting	2	1	1	SSS-1
Total		20	12	8	-

Table 12.2.2: Details of ICAR-ATARI, Kanpur staff

Category	Name of employee with designation	
RMP	1. Dr. Shantanu Kumar Dubey	Director
Scientific Staff	2. Dr. Ajay Kumar Singh	Principal Scientist (Agronomy)
	3. Dr. Raghwendra Singh	Principal Scientist (Horticulture)
	4. Dr. Seema Yadav	Scientist (LPM)
Technical Staff	5. Mr. Yemul Sanjeev N.	Chief Technical Officer (Computer)
	6. Mr. Pramod Kumar Rai	Technical Officer (Driver)
Administrative Staff	7. Ms. Neetha Joy Cheeran	Asstt. Finance & Accounts Officer
	8. Mr. Raman Tripathi	Asstt. Administrative Officer
	9. Mr. R.K.P. Sinha	Assistant
	10. Mr. Sunil Kumar Singh	U.D.C.
	11. Mr. Shravan Kumar Yadav	L.D.C.
Supporting Staff	12. Mr. Bal Kishun	Skilled Supporting Staff

11.3 Staff Position in KVKs of Uttar Pradesh

Out of total sanctioned post (1424), KVKs have filled 969 posts including Head (62), Subject Matter Specialists (411), Programme Asstt. (144), Administrative (116), Auxiliary (126), Supporting (110). Filled positions are 68.12 % and vacant post lying as 31.88 %. Category wise staff positions are given in Table 12.3.

Table 12.3: KVK staff Position at a glance

Category	Sanctioned	Filled	Vacant
Head	89	59	30
Subject Matter Specialist	534	400	134
Programme Assistant	267	128	139
Administrative	178	107	71
Auxiliary	178	116	62
Supporting	178	91	87
Total	1424	901	523
Total % filled		63.27 %	36.73 %

12.4 STATUS OF BUDGET

During the financial year 2023-24, an amount of Rs. 15343.91 lakh was utilized/released against the allotted budget of Rs. 15344.01 lakh.

Table 12.4.1: Head wise allocation funds for ICAR-ATARI, Kanpur and KVKs of U.P. for 2023-24

(Rs in lakh)

S. No.	Heads	ATARI	KVK	DE	Total
A	Revenue				
i	Pay & Allowances	230.01	12541.49	0.00	12771.50
ii	Pension	0.00	0.00	0.00	0.00
iii	T.A.	7.74	115.48	3.75	126.97
iv	H.R.D.	7.86	32.97	3.50	44.33
v	Contingency	93.32	1058.63	26.75	1178.70
	Total (A)	338.93	13748.57	34.00	14121.50
B	Capital				
i	Furniture/Equipment	0.85	108.50	0.00	109.35
ii	Works	0.00	327.70	0.00	327.70
iii	Library	0.00	0.00	0.00	0.00
iv	Vehicle	0.00	8.46	0.00	8.46
	Total (B)	0.85	444.66	0.00	445.51
C	Revolving Fund	0.00	0.00	0.00	0.00
	Total (C)	0.00	0.00	0.00	0.00
D	TSP - Capital	0.00	30.00	0.00	30.00
	TSP - General	0.00	127.00	0.00	127.00
	Total (D)	0.00	157.00	0.00	157.00
E	SCSP - Capital	0.00	150.00	0.00	150.00
	SCSP - General	0.00	470.00	0.00	470.00
	Total (E)	0.00	620.00	0.00	620.00
	Total (A+B+C+D+E)	339.78	14970.23	34.00	15344.01

Table 12.4.2: Actual Expenditure/Release for 2023-24

(Rs in lakh)

S. No.	Heads	ATARI	KVK	DE	Total
A	Revenue				
i	Pay & Allowances	230.00	12541.49	0.00	12771.49
ii	Pension	0.00	0.00	0.00	0.00
iii	T.A.	7.74	115.48	3.75	126.97
iv	H.R.D.	7.85	32.97	3.50	44.32
v	Contingency	93.25	1058.63	26.75	1178.63
	Total (A)	338.84	13748.57	34.00	14121.41
B	Capital				
i	Furniture/Equipment	0.84	108.50	0.00	109.34
ii	Works	0.00	327.70	0.00	327.70
iii	Library	0.00	0.00	0.00	0.00
iv	Vehicle	0.00	8.46	0.00	8.46
	Total (B)	0.84	444.66	0.00	445.50
C	Revolving Fund	0.00	0.00	0.00	0.00
	Total (C)	0.00	0.00	0.00	0.00
D	TSP - Capital	0.00	30.00	0.00	30.00
	TSP - General	0.00	127.00	0.00	127.00
	Total (D)	0.00	157.00	0.00	157.00
E	SCSP - Capital	0.00	150.00	0.00	150.00
	SCSP - General	0.00	470.00	0.00	470.00
	Total (E)	0.00	620.00	0.00	620.00
	Total (A+B+C+D+E)	339.68	14970.23	34.00	15343.91

ATARI EVENTS & PARTICIPATION

During the period under report, ICAR-ATARI, Kanpur organised different types of important events such as Zonal Review Workshop of CFLD on Pulses and oilseeds, review meetings of the projects like CRM, ARYA, NICRA, Farmer FIRST programme, MGMG, TSP, SCSP, NARI etc. by virtual and physical mode.

This institute have also been participated in different important events like Regional Agriculture Fair, IMC meeting, Curtain Raiser Event of Golden Jubilee Celebration of KVKs at Puducherry, *Viksit Bharat Sankalp Yatra*, 100 day Action Plan for *Viksit Bharat*, 96th ICAR Foundation Day and Technology Day in New Delhi, Convergence Platform (CP) meeting of CSISA-KVK Network Project, 3rd RAC meeting of ICAR-ATARIs at Hyderabad, meeting of iGOT etc.

In addition to this, ATARI have also celebrated and organised different programmes such as Republic Day Independent Day, Goga Day, Ek Ped Maa Ke Nam, 'Swachhta Hi Sewa, Hindi Pakhwada, World Environment day and Golden Jubilee Celebration of KVKs etc.



Zonal review workshop of CFLD on Pulses and Oilseeds (27-29 February, 2024)



Participation in Regional Agriculture Fair
(3-5 February, 2024)



Online Review meeting of CRM Project
(13-15 February, 2024)



Participation in National workshop of ARYA Project at Gaya, Bihar (22nd-23rd February 2024)



The Zonal Monitoring Committee (ZMC) visit to NICRA Project districts (5-7 March, 2024)



10th Institute Management Committee (IMC) Meeting of ICAR-ATARI, Kanpur (21.02.2024)



Participation in 'Mahila Kisan Mela & Gosthi' organized by KVK Jhansi (14.03.2024)



Inauguration of 16th Institute Foundation Day' and National Seminar on 'Cultivating Sustainability through Natural Farming Practices' (19.03.2024)





Participation in Curtain Raiser Event of Golden Jubilee Celebration of KVKs at Puducherry

(21.03.2024)



SMD level Review and Golden Jubilee activities (1-5 April, 2024)



Meetings on "100 day Action Plan for Viksit Bharat" and 'Impact of Nutritional Interventions on Production and Consumption Diversity: A Step Towards Achieving SDGs' (8-9 April, 2024)



Online participation in Meeting on Ecoregional Working Group Programme (12.04.2024)



Launching of DSR Demonstrations under ICAR-Bayer Crop Science Collaboration Programme (30.04.2024)



State Level Pre-Kharif CSISA-Convergence Platform (CP) meeting held at ICAR-ATARI, Kanpur (28.05.2024)



Participation in Divisional Review Meeting of Extension Division, ICAR (12-13 June, 2024)



DDG (AE) Visited ICAR-ATARI, Kanpur (1.06.2024)



PM Kisan Samman Nidhi Programme organised (18.06.2024)



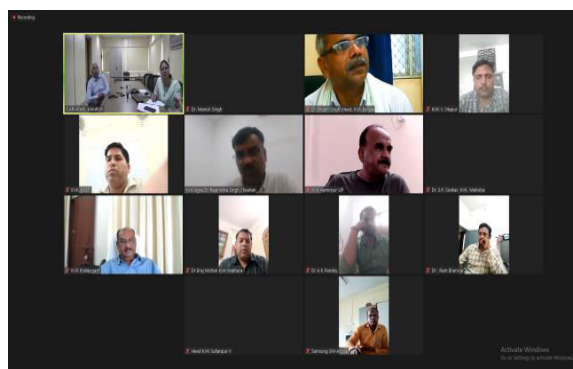
Yoga Day Celebration (21.06.2024)



Annual Zonal Review Workshop of NICRA Project for KVKs of Uttar Pradesh (25-26th June, 2024)



Farewell & Retirement (Dr. S.K. Singh 31.05.2024 and Shri R.B. Verma 20.05.2024)



Online participation for preparation of 100 Days Action Plan and Five Year Targets hosted by ICAR New Delhi (01.07.2024, 12.07.2024)



96th ICAR Foundation Day and Technology Day in New Delhi (16.07.2024)



3rd phase of 9th MDP & meeting with KVKs regarding Sharing of Experiences of MDP Trainee (23-27 July, 2024)



Independence Day Celebrations at ICAR-ATARI, Kanpur (15.08.2024)



Tree Plantation Campaign under "Ek Ped Maa Ke Naam" on 29th August 2024



Stakeholders Consultation on Transforming Agriculture Research-Enhancing Role of Private Sector (03.09.2024)



Participation in online meeting "Swachhta Hi Seva" under chairmanship of Secretary (DARE) & DG (ICAR) - 11.09.2024

31st Annual Zonal Workshop of KVKs of Uttar Pradesh (24th to 26th September 2024)



Agro-Climatic Zone wise Action Plan-2025 & Mid Term Review Workshop of KVKs



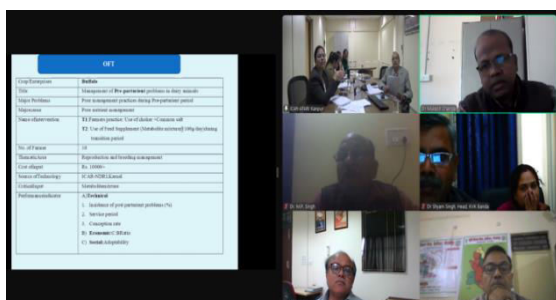
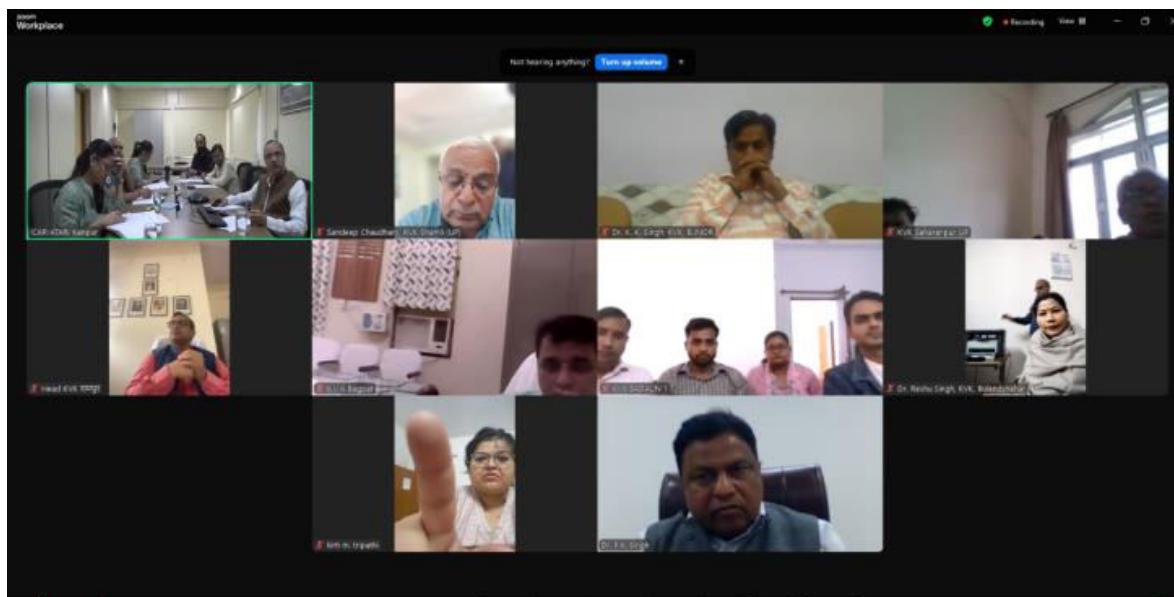
Eastern Plain Zone (Group 1) – 22-24 Oct., 2024



South Western Semi Arid Zone & Central Plain Zone (Group 2) 28-30 Oct., 2024



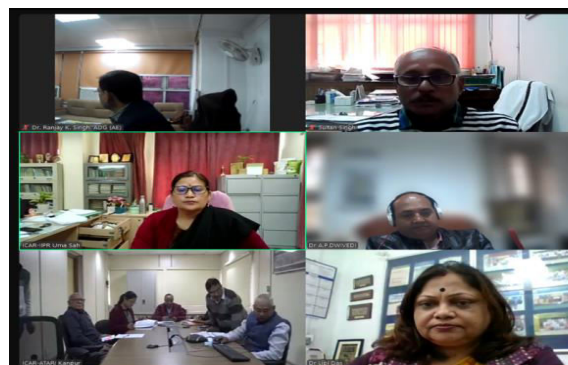
Bhabar & Tarai, Western Plain and Mid Western Plain Zones (Group 3) 13-14 Nov., 2024



Bundelkhand Zone, North Eastern Plain Zone and Vindhyan Zone (Group 4)
(26-28 Sept., 2024)



Convergence Platform (CP) Meeting of CSISA-KVK Network project (05.11.2024)

3rd RAC meeting of ICAR-ATARIs at HyderabadOnline 11th IMC Meeting of ICAR-ATARI, Kanpur (17.12.2024)IIIrd Phase of X MDP organized by ICAR-ATARI, Kanpur (27-31 Dec., 2024)

Annexure

TRAINING PROGRAMMES

A) Farmer and & farm women (ON Campus trainings)

Thematic area (May be specific to any given KVK)	No. of courses	ON CAMPUS								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	79	1052	124	1176	449	172	621	1501	296	1797
Resource Conservation Technologies	58	785	132	917	305	79	384	1090	211	1301
Cropping Systems	52	867	84	951	261	62	323	1128	146	1274
Crop Diversification	44	760	75	835	169	33	202	929	108	1037
Integrated Farming	36	535	61	596	209	91	300	744	152	896
Micro Irrigation/irrigation	13	185	39	224	88	33	121	273	72	345
Seed production	98	1288	170	1458	506	194	700	1794	364	2158
Nursery management	47	642	91	733	345	93	438	987	184	1171
Integrated Crop Management	89	1335	124	1459	531	79	610	1866	203	2069
Soil & water conservatioin	28	473	54	527	173	45	218	646	99	745
Integrated nutrient management	45	1112	130	1242	275	63	338	1387	193	1580
Production of organic inputs	31	522	65	587	170	65	235	692	130	822
Others	46	725	162	887	441	102	543	1166	264	1430
Total	666	10281	1311	11592	3922	1111	5033	14203	2422	16625
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	79	1221	166	1387	358	203	561	1579	369	1948
Off-season vegetables	40	564	89	653	290	98	388	854	187	1041
Nursery raising	79	1082	209	1291	392	190	582	1474	399	1873
Exotic vegetables	18	250	47	297	127	45	172	377	92	469
Export potential vegetables	11	136	33	169	46	37	83	182	70	252
Grading and standardization	18	264	57	321	75	40	115	339	97	436
Protective cultivation	37	467	48	515	206	77	283	673	125	798
Others	20	244	41	285	262	80	342	506	121	627
Total (a)	302	4228	690	4918	1756	770	2526	5984	1460	7444
b) Fruits										
Training and Pruning	18	274	34	308	55	16	71	329	50	379
Layout and Management of Orchards	32	467	99	566	160	40	200	627	139	766
Cultivation of Fruit	36	532	48	580	156	90	246	688	138	826
Management of young plants/orchards	22	341	33	374	82	35	117	423	68	491
Rejuvenation of old	19	256	59	315	85	17	102	341	76	417

orchards										
Export potential fruits	4	76	0	76	10	0	10	86	0	86
Micro irrigation systems of orchards	11	159	21	180	46	20	66	205	41	246
Plant propagation techniques	11	232	12	244	27	5	32	259	17	276
Others	4	88	5	93	2	5	7	90	10	100
Total (b)	157	2425	311	2736	623	228	851	3048	539	3587
c) Ornamental Plants										
Nursery Management	10	226	33	259	31	8	39	257	41	298
Management of potted plants	5	92	6	98	13	0	13	105	6	111
Export potential of ornamental plants	4	75	0	75	5	0	5	80	0	80
Propagation techniques of Ornamental Plants	6	90	0	90	37	0	37	127	0	127
Others	4	53	13	66	13	3	16	66	16	82
Total (c)	29	536	52	588	99	11	110	635	63	698
d) Plantation crops										
Production and Management technology	7	123	23	146	32	9	41	155	32	187
Processing and value addition	5	88	19	107	28	9	37	116	28	144
Others	0	0	0	0	0	0	0	0	0	0
Total (d)	12	211	42	253	60	18	78	271	60	331
e) Tuber crops										
Production and Management technology	13	226	26	252	34	8	42	260	34	294
Processing and value addition	3	77	2	79	2	1	3	79	3	82
Others	2	14	0	14	10	0	10	24	0	24
Total (e)	18	317	28	345	46	9	55	363	37	400
f) Spices										
Production and Management technology	15	188	15	203	63	6	69	251	21	272
Processing and value addition	6	92	3	95	10	15	25	102	18	120
Others	2	40	2	42	3	0	3	43	2	45
Total (f)	23	320	20	340	76	21	97	396	41	437
g) Medicinal and Aromatic Plants										
Nursery management	7	160	5	165	9	3	12	169	8	177
Production and management technology	6	113	4	117	14	7	21	127	11	138
Post harvest technology and value addition	4	93	2	95	3	1	4	96	3	99
Others	3	41	17	58	8	1	9	49	18	67
Total (g)	20	407	28	435	34	12	46	441	40	481
GT (a-g)	561	8444	1171	9615	2694	1069	3763	11138	2240	13378
III Soil Health and Fertility Mangmt.										
Soil fertility management	49	647	100	747	225	127	352	872	227	1099
Integrated water	24	387	90	477	148	55	203	535	145	680

management										
Integrated Nutrient Management	52	727	81	808	277	160	437	1004	241	1245
Production and use of organic inputs	33	453	115	568	199	115	314	652	230	882
Management of Problematic soils	18	253	49	302	118	35	153	371	84	455
Micro nutrient deficiency in crops	28	376	75	451	137	47	184	513	122	635
Nutrient Use Efficiency	19	298	69	367	104	32	136	402	101	503
Balance use of fertilizers	32	491	73	564	165	83	248	656	156	812
Soil and Water Testing	27	421	49	470	158	39	197	579	88	667
Others	13	332	17	349	93	16	109	425	33	458
Total	295	4385	718	5103	1624	709	2333	6009	1427	7436
IV Livestock Production and Mangmt.										
Dairy Management	82	961	176	1137	649	252	901	1610	428	2038
Poultry Management	48	495	102	597	354	111	465	849	213	1062
Piggery Management	18	177	49	226	197	43	240	374	92	466
Rabbit Management	4	26	38	64	14	1	15	40	39	79
Animal Nutrition Management	43	527	134	661	301	92	393	828	226	1054
Disease Management	59	762	166	928	396	84	480	1158	250	1408
Feed & fodder technology	57	699	123	822	444	114	558	1143	237	1380
Production of quality animal products	27	373	63	436	123	30	153	496	93	589
Others	23	280	58	338	121	46	167	401	104	505
Total	361	4300	909	5209	2599	773	3372	6899	1682	8581
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	69	338	731	1069	185	409	594	523	1140	1663
Design and development of low/minimum cost diet	21	75	276	351	23	90	113	98	366	464
Designing and development for high nutrient efficiency diet	27	145	275	420	16	123	139	161	398	559
Minimization of nutrient loss in processing	15	100	136	236	14	52	66	114	188	302
Processing and cooking	18	4	261	265	0	103	103	4	364	368
Gender mainstreaming through SHGs	16	42	219	261	13	77	90	55	296	351
Storage loss minimization techniques	19	60	198	258	22	133	155	82	331	413
Value addition	74	97	887	984	55	667	722	152	1554	1706
Women empowerment	18	60	248	308	8	94	102	68	342	410
Location specific drudgery reduction technologies	11	16	124	140	4	82	86	20	206	226
Rural Crafts	9	0	143	143	0	45	45	0	188	188
Women and child care	27	59	354	413	9	175	184	68	529	597

Others	18	131	174	305	47	55	102	178	229	407
Total	342	1127	4026	5153	396	2105	2501	1523	6131	7654
VI Agril. Engineering										
Farm Machinery and its maintenance	26	350	62	412	136	21	157	486	83	569
Installation and maintenance of micro irrigation systems	13	102	68	170	75	39	114	177	107	284
Use of Plastics in farming practices	5	55	15	70	50	13	63	105	28	133
Production of small tools and implements	5	48	45	93	28	9	37	76	54	130
Repair and maintenance of farm machinery and implements	36	393	243	636	85	69	154	478	312	790
Small scale processing and value addition	5	61	20	81	7	2	9	68	22	90
Post Harvest Technology	7	54	4	58	97	2	99	151	6	157
Others	16	285	34	319	112	21	133	397	55	452
Total	113	1348	491	1839	590	176	766	1938	667	2605
VII Plant Protection										
Integrated Pest Management	106	1647	209	1856	436	177	613	2083	386	2469
Integrated Disease Management	68	902	118	1020	434	126	560	1336	244	1580
Bio-control of pests and diseases	32	532	60	592	123	36	159	655	96	751
Production of bio control agents and bio pesticides	31	475	68	543	148	79	227	623	147	770
Others	44	551	89	640	209	127	336	760	216	976
Total	281	4107	544	4651	1350	545	1895	5457	1089	6546
VIII Fisheries										
Integrated fish farming	17	240	41	281	112	68	180	352	109	461
Carp breeding and hatchery management	14	236	26	262	79	20	99	315	46	361
Carp fry and fingerling rearing	6	91	18	109	84	17	101	175	35	210
Composite fish culture	18	260	60	320	120	34	154	380	94	474
Hatchery management and culture of freshwater prawn	4	62	10	72	42	12	54	104	22	126
Breeding and culture of ornamental fishes	8	101	66	167	71	15	86	172	81	253
Portable plastic carp hatchery	6	106	12	118	58	16	74	164	28	192
Pen culture of fish and prawn	8	120	16	136	50	8	58	170	24	194
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	5	28	20	48	49	34	83	77	54	131
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	9	152	55	207	52	31	83	204	86	290
Others	1	17	1	18	12	2	14	29	3	32

Total	79	1413	325	1738	729	257	986	2142	582	2724
IX Production of Inputs at site										
Seed Production	31	392	53	445	186	22	208	578	75	653
Planting material production	8	141	24	165	36	10	46	177	34	211
Bio-agents production	3	45	9	54	24	5	29	69	14	83
Bio-pesticides production	5	79	9	88	43	4	47	122	13	135
Bio-fertilizer production	9	133	17	150	75	44	119	208	61	269
Vermi-compost production	18	226	29	255	136	61	197	362	90	452
Organic manures production	16	151	36	187	133	47	180	284	83	367
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	1	15	4	19	4	2	6	19	6	25
Small tools and implements	3	47	21	68	44	12	56	91	33	124
Production of livestock feed and fodder	7	94	22	116	68	18	86	162	40	202
Production of Fish feed	9	118	25	143	57	22	79	175	47	222
Mushroom Production	14	175	40	215	113	53	166	288	93	381
Apiculture	5	78	18	96	56	19	75	134	37	171
Others	8	95	19	114	45	8	53	140	27	167
Total	137	1789	326	2115	1020	327	1347	2809	653	3462
X Capacity Building and Group Dynamics										
Leadership development	32	484	104	588	127	59	186	611	163	774
Group dynamics	30	387	89	476	179	59	238	566	148	714
Formation and Management of SHGs	34	380	132	512	146	106	252	526	238	764
Mobilization of social capital	13	214	26	240	84	47	131	298	73	371
Entrepreneurial development of farmers/youths	39	585	158	743	181	64	245	766	222	988
WTO and IPR issues	4	41	9	50	22	8	30	63	17	80
Others	17	210	79	289	94	20	114	304	99	403
Total	169	2301	597	2898	833	363	1196	3134	960	4094
XI Agro-forestry										
Production technologies	20	231	46	277	104	24	128	335	70	405
Nursery management	12	151	35	186	93	25	118	244	60	304
Integrated Farming Systems	14	175	29	204	86	28	114	261	57	318
Others	8	87	13	100	36	4	40	123	17	140
Total	54	644	123	767	319	81	400	963	204	1167
GRAND TOTAL	3058	40139	10541	50680	16076	7516	23592	56215	18057	74272

B) Farmers and farm women (OFF Campus Trainings)

(May be specific to any given KVK)	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	112	1545	227	1772	576	282	858	2121	509	2630
Resource Conservation Technologies	70	943	275	1218	451	180	631	1394	455	1849
Cropping Systems	64	1101	123	1224	283	67	350	1384	190	1574
Crop Diversification	57	1055	78	1133	196	34	230	1251	112	1363
Integrated Farming	34	491	60	551	175	76	251	666	136	802
Micro Irrigation/irrigation	26	386	61	447	118	70	188	504	131	635
Seed production	71	919	161	1080	447	210	657	1366	371	1737
Nursery management	36	576	87	663	166	77	243	742	164	906
Integrated Crop Management	119	1758	157	1915	806	219	1025	2564	376	2940
Soil & water conservatioin	16	274	29	303	75	17	92	349	46	395
Integrated nutrient management	55	993	71	1064	211	101	312	1204	172	1376
Production of organic inputs	34	471	159	630	171	134	305	642	293	935
Others	46	871	150	1021	491	112	603	1362	262	1624
Total	740	11383	1638	13021	4166	1579	5745	15549	3217	18766
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	104	1557	204	1761	434	195	629	1991	399	2390
Off-season vegetables	38	557	65	622	182	128	310	739	193	932
Nursery raising	67	905	97	1002	427	174	601	1332	271	1603
Exotic vegetables	16	242	51	293	81	52	133	323	103	426
Export potential vegetables	23	361	17	378	118	33	151	479	50	529
Grading and standardization	15	288	42	330	154	50	204	442	92	534
Protective cultivation	30	420	49	469	125	43	168	545	92	637
Others	38	519	116	635	129	112	241	648	228	876
Total (a)	331	4849	641	5490	1650	787	2437	6499	1428	7927
b) Fruits										
Training and Pruning	22	271	75	346	136	77	213	407	152	559
Layout and Management of Orchards	52	888	164	1052	230	137	367	1118	301	1419
Cultivation of Fruit	43	656	84	740	206	75	281	862	159	1021
Management of young plants/orchards	27	432	40	472	70	27	97	502	67	569
Rejuvenation of old orchards	23	332	45	377	165	31	196	497	76	573
Export potential fruits	6	76	8	84	55	34	89	131	42	173
Micro irrigation systems	15	270	31	301	58	32	90	328	63	391

of orchards										
Plant propagation techniques	14	181	25	206	143	32	175	324	57	381
Others	5	78	11	89	18	3	21	96	14	110
Total (b)	207	3184	483	3667	1081	448	1529	4265	931	5196
c) Ornamental Plants										
Nursery Management	22	311	56	367	82	60	142	393	116	509
Management of potted plants	11	183	45	228	69	16	85	252	61	313
Export potential of ornamental plants	16	281	25	306	64	17	81	345	42	387
Propagation techniques of Ornamental Plants	12	192	22	214	118	21	139	310	43	353
Others	12	231	9	240	30	4	34	261	13	274
Total (c)	73	1198	157	1355	363	118	481	1561	275	1836
d) Plantation crops										
Production and Management technology	9	125	22	147	63	45	108	188	67	255
Processing and value addition	3	45	7	52	13	5	18	58	12	70
Others	1	20	0	20	0	0	0	20	0	20
Total (d)	13	190	29	219	76	50	126	266	79	345
e) Tuber crops										
Production and Management technology	18	306	11	317	61	31	92	367	42	409
Processing and value addition	1	14	2	16	2	1	3	16	3	19
Others	1	11	4	15	4	3	7	15	7	22
Total (e)	20	331	17	348	67	35	102	398	52	450
f) Spices										
Production and Management technology	16	298	35	333	56	22	78	354	57	411
Processing and value addition	2	43	0	43	2	0	2	45	0	45
Others	4	54	2	56	29	1	30	83	3	86
Total (f)	22	395	37	432	87	23	110	482	60	542
g) Medicinal and Aromatic Plants										
Nursery management	5	84	4	88	8	2	10	92	6	98
Production and management technology	5	79	12	91	18	1	19	97	13	110
Post harvest technology and value addition	2	30	2	32	2	1	3	32	3	35
Others	2	26	2	28	3	1	4	29	3	32
Total (g)	14	219	20	239	31	5	36	250	25	275
GT (a-g)	680	10366	1384	11750	3355	1466	4821	13721	2850	16571
III Soil Health and Fertility Mangmt.										
Soil fertility management	56	937	233	1170	211	73	284	1148	306	1454
Integrated water management	38	715	216	931	167	58	225	882	274	1156
Integrated Nutrient Management	85	1317	148	1465	351	136	487	1668	284	1952

Production and use of organic inputs	45	692	153	845	309	57	366	1001	210	1211
Management of Problematic soils	29	339	71	410	148	73	221	487	144	631
Micro nutrient deficiency in crops	28	411	85	496	161	50	211	572	135	707
Nutrient Use Efficiency	25	394	98	492	159	99	258	553	197	750
Balance use of fertilizers	30	588	126	714	151	89	240	739	215	954
Soil and Water Testing	65	1140	348	1488	481	161	642	1621	509	2130
Others	23	345	40	385	103	51	154	448	91	539
Total	424	6878	1518	8396	2241	847	3088	9119	2365	11484
IV Livestock Production and Mangmt.										
Dairy Management	105	1247	272	1519	591	291	882	1838	563	2401
Poultry Management	68	786	231	1017	425	326	751	1211	557	1768
Piggery Management	11	119	23	142	108	48	156	227	71	298
Rabbit Management	5	66	33	99	11	10	21	77	43	120
Animal Nutrition Management	53	747	144	891	250	118	368	997	262	1259
Disease Management	115	1455	269	1724	678	334	1012	2133	603	2736
Feed & fodder technology	69	1060	168	1228	298	168	466	1358	336	1694
Production of quality animal products	31	460	97	557	114	42	156	574	139	713
Others	34	397	114	511	178	171	349	575	285	860
Total	491	6337	1351	7688	2653	1508	4161	8990	2859	11849
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	79	196	1025	1221	155	573	728	351	1598	1949
Design and development of low/minimum cost diet	40	184	340	524	85	316	401	269	656	925
Designing and development for high nutrient efficiency diet	46	79	626	705	2	382	384	81	1008	1089
Minimization of nutrient loss in processing	40	245	395	640	57	197	254	302	592	894
Processing and cooking	18	46	201	247	15	111	126	61	312	373
Gender mainstreaming through SHGs	23	80	217	297	24	198	222	104	415	519
Storage loss minimization techniques	31	69	379	448	30	215	245	99	594	693
Value addition	61	150	870	1020	42	353	395	192	1223	1415
Women empowerment	44	52	584	636	14	403	417	66	987	1053
Location specific drudgery reduction technologies	28	33	332	365	46	239	285	79	571	650
Rural Crafts	16	42	234	276	3	27	30	45	261	306
Women and child care	55	245	618	863	52	328	380	297	946	1243
Others	32	65	374	439	22	291	313	87	665	752
Total	513	1486	6195	7681	547	3633	4180	2033	9828	11861

VI Agril. Engineering										
Farm Machinery and its maintenance	41	610	66	676	158	21	179	768	87	855
Installation and maintenance of micro irrigation systems	16	173	94	267	61	39	100	234	133	367
Use of Plastics in farming practices	13	132	85	217	69	15	84	201	100	301
Production of small tools and implements	7	64	25	89	28	24	52	92	49	141
Repair and maintenance of farm machinery and implements	33	428	128	556	105	51	156	533	179	712
Small scale processing and value addition	7	376	48	424	97	10	107	473	58	531
Post Harvest Technology	12	161	75	236	56	9	65	217	84	301
Others	21	362	27	389	86	14	100	448	41	489
Total	150	2306	548	2854	660	183	843	2966	731	3697
VII Plant Protection										
Integrated Pest Management	203	3000	246	3246	1224	404	1628	4224	650	4874
Integrated Disease Management	112	1641	187	1828	646	186	832	2287	373	2660
Bio-control of pests and diseases	61	751	349	1100	234	154	388	985	503	1488
Production of bio control agents and bio pesticides	36	537	81	618	160	44	204	697	125	822
Others	39	580	51	631	362	136	498	942	187	1129
Total	451	6509	914	7423	2626	924	3550	9135	1838	10973
VIII Fisheries										
Integrated fish farming	18	255	92	347	107	88	195	362	180	542
Carp breeding and hatchery management	32	546	90	636	145	26	171	691	116	807
Carp fry and fingerling rearing	8	138	9	147	40	6	46	178	15	193
Composite fish culture	27	339	104	443	140	83	223	479	187	666
Hatchery management and culture of freshwater prawn	3	47	12	59	38	9	47	85	21	106
Breeding and culture of ornamental fishes	4	69	44	113	37	14	51	106	58	164
Portable plastic carp hatchery	14	245	19	264	62	19	81	307	38	345
Pen culture of fish and prawn	1	20	0	20	0	0	0	20	0	20
Shrimp farming	3	56	8	64	28	16	44	84	24	108
Edible oyster farming	2	38	4	42	12	6	18	50	10	60
Pearl culture	5	62	20	82	28	8	36	90	28	118
Fish processing and value addition	8	86	21	107	47	13	60	133	34	167
Others	9	119	38	157	55	15	70	174	53	227
Total	134	2020	461	2481	739	303	1042	2759	764	3523
IX Production of Inputs										

at site										
Seed Production	43	630	56	686	228	76	304	858	132	990
Planting material production	13	227	19	246	63	21	84	290	40	330
Bio-agents production	2	35	3	38	5	5	10	40	8	48
Bio-pesticides production	7	161	22	183	49	6	55	210	28	238
Bio-fertilizer production	8	113	20	133	51	45	96	164	65	229
Vermi-compost production	18	286	63	349	113	27	140	399	90	489
Organic manures production	9	129	21	150	70	12	82	199	33	232
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	5	44	16	60	38	19	57	82	35	117
Small tools and implements	4	68	28	96	35	18	53	103	46	149
Production of livestock feed and fodder	5	78	18	96	52	16	68	130	34	164
Production of Fish feed	12	233	4	237	44	12	56	277	16	293
Mushroom Production	13	157	48	205	94	57	151	251	105	356
Apiculture	7	56	25	81	59	25	84	115	50	165
Others	10	177	8	185	22	12	34	199	20	219
Total	156	2394	351	2745	923	351	1274	3317	702	4019
X Capacity Building and Group Dynamics										
Leadership development	33	424	131	555	216	170	386	640	301	941
Group dynamics	27	458	50	508	74	60	134	532	110	642
Formation and Management of SHGs	49	657	214	871	210	173	383	867	387	1254
Mobilization of social capital	28	463	20	483	148	45	193	611	65	676
Entrepreneurial development of farmers/youths	54	765	236	1001	323	180	503	1088	416	1504
WTO and IPR issues	10	163	1	164	34	13	47	197	14	211
Others	46	825	68	893	211	54	265	1036	122	1158
Total	247	3755	720	4475	1216	695	1911	4971	1415	6386
XI Agro-forestry										
Production technologies	44	725	114	839	269	85	354	994	199	1193
Nursery management	25	411	95	506	164	76	240	575	171	746
Integrated Farming Systems	18	215	59	274	124	51	175	339	110	449
Others	21	334	43	377	105	32	137	439	75	514
Total	108	1685	311	1996	662	244	906	2347	555	2902
GRAND TOTAL	4094	55119	15391	70510	19788	11733	31521	74907	27124	102031

C) Farmers and farm women (Consolidated ON+OFF Campus trainings)

Thematic area	No. of courses	ON+OFF CAMPUS								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	191	2597	351	2948	1025	454	1479	3622	805	4427
Resource Conservation Technologies	128	1728	407	2135	756	259	1015	2484	666	3150
Cropping Systems	116	1968	207	2175	544	129	673	2512	336	2848
Crop Diversification	101	1815	153	1968	365	67	432	2180	220	2400
Integrated Farming	70	1026	121	1147	384	167	551	1410	288	1698
Micro Irrigation/irrigation	39	571	100	671	206	103	309	777	203	980
Seed production	169	2207	331	2538	953	404	1357	3160	735	3895
Nursery management	83	1218	178	1396	511	170	681	1729	348	2077
Integrated Crop Management	208	3093	281	3374	1337	298	1635	4430	579	5009
Soil & water conservatioin	44	747	83	830	248	62	310	995	145	1140
Integrated nutrient management	100	2105	201	2306	486	164	650	2591	365	2956
Production of organic inputs	65	993	224	1217	341	199	540	1334	423	1757
Others	92	1596	312	1908	932	214	1146	2528	526	3054
Total	1406	21664	2949	24613	8088	2690	10778	29752	5639	35391
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	183	2778	370	3148	792	398	1190	3570	768	4338
Off-season vegetables	78	1121	154	1275	472	226	698	1593	380	1973
Nursery raising	146	1987	306	2293	819	364	1183	2806	670	3476
Exotic vegetables	34	492	98	590	208	97	305	700	195	895
Export potential vegetables	34	497	50	547	164	70	234	661	120	781
Grading and standardization	33	552	99	651	229	90	319	781	189	970
Protective cultivation	67	887	97	984	331	120	451	1218	217	1435
Others	58	763	157	920	391	192	583	1154	349	1503
Total (a)	633	9077	1331	10408	3406	1557	4963	12483	2888	15371
b) Fruits										
Training and Pruning	40	545	109	654	191	93	284	736	202	938
Layout and Management of Orchards	84	1355	263	1618	390	177	567	1745	440	2185
Cultivation of Fruit	79	1188	132	1320	362	165	527	1550	297	1847
Management of young plants/orchards	49	773	73	846	152	62	214	925	135	1060
Rejuvenation of old orchards	42	588	104	692	250	48	298	838	152	990

Export potential fruits	10	152	8	160	65	34	99	217	42	259
Micro irrigation systems of orchards	26	429	52	481	104	52	156	533	104	637
Plant propagation techniques	25	413	37	450	170	37	207	583	74	657
Others	9	166	16	182	20	8	28	186	24	210
Total (b)	364	5609	794	6403	1704	676	2380	7313	1470	8783
c) Ornamental Plants										
Nursery Management	32	537	89	626	113	68	181	650	157	807
Management of potted plants	16	275	51	326	82	16	98	357	67	424
Export potential of ornamental plants	20	356	25	381	69	17	86	425	42	467
Propagation techniques of Ornamental Plants	18	282	22	304	155	21	176	437	43	480
Others	16	284	22	306	43	7	50	327	29	356
Total (c)	102	1734	209	1943	462	129	591	2196	338	2534
d) Plantation crops										
Production and Management technology	16	248	45	293	95	54	149	343	99	442
Processing and value addition	8	133	26	159	41	14	55	174	40	214
Others	1	20	0	20	0	0	0	20	0	20
Total (d)	25	401	71	472	136	68	204	537	139	676
e) Tuber crops										
Production and Management technology	31	532	37	569	95	39	134	627	76	703
Processing and value addition	4	91	4	95	4	2	6	95	6	101
Others	3	25	4	29	14	3	17	39	7	46
Total (e)	38	648	45	693	113	44	157	761	89	850
f) Spices										
Production and Management technology	31	486	50	536	119	28	147	605	78	683
Processing and value addition	8	135	3	138	12	15	27	147	18	165
Others	6	94	4	98	32	1	33	126	5	131
Total (f)	45	715	57	772	163	44	207	878	101	979
g) Medicinal and Aromatic Plants										
Nursery management	12	244	9	253	17	5	22	261	14	275
Production and management technology	11	192	16	208	32	8	40	224	24	248
Post harvest technology and value addition	6	123	4	127	5	2	7	128	6	134
Others	5	67	19	86	11	2	13	78	21	99
Total (g)	34	626	48	674	65	17	82	691	65	756

GT (a-g)	1241	18810	2555	21365	6049	2535	8584	24859	5090	29949
III Soil Health and Fertility Mangmt.										
Soil fertility management	105	1584	333	1917	436	200	636	2020	533	2553
Integrated water management	62	1102	306	1408	315	113	428	1417	419	1836
Integrated Nutrient Management	137	2044	229	2273	628	296	924	2672	525	3197
Production and use of organic inputs	78	1145	268	1413	508	172	680	1653	440	2093
Management of Problematic soils	47	592	120	712	266	108	374	858	228	1086
Micro nutrient deficiency in crops	56	787	160	947	298	97	395	1085	257	1342
Nutrient Use Efficiency	44	692	167	859	263	131	394	955	298	1253
Balance use of fertilizers	62	1079	199	1278	316	172	488	1395	371	1766
Soil and Water Testing	92	1561	397	1958	639	200	839	2200	597	2797
Others	36	677	57	734	196	67	263	873	124	997
Total	719	11263	2236	13499	3865	1556	5421	15128	3792	18920
IV Livestock Production and Mangmt.										
Dairy Management	187	2208	448	2656	1240	543	1783	3448	991	4439
Poultry Management	116	1281	333	1614	779	437	1216	2060	770	2830
Piggery Management	29	296	72	368	305	91	396	601	163	764
Rabbit Management	9	92	71	163	25	11	36	117	82	199
Animal Nutrition Management	96	1274	278	1552	551	210	761	1825	488	2313
Disease Management	174	2217	435	2652	1074	418	1492	3291	853	4144
Feed & fodder technology	126	1759	291	2050	742	282	1024	2501	573	3074
Production of quality animal products	58	833	160	993	237	72	309	1070	232	1302
Others	57	677	172	849	299	217	516	976	389	1365
Total	852	10637	2260	12897	5252	2281	7533	15889	4541	20430
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	148	534	1756	2290	340	982	1322	874	2738	3612
Design and development of low/minimum cost diet	61	259	616	875	108	406	514	367	1022	1389
Designing and development for high nutrient efficiency diet	73	224	901	1125	18	505	523	242	1406	1648
Minimization of nutrient loss in processing	55	345	531	876	71	249	320	416	780	1196
Processing and	36	50	462	512	15	214	229	65	676	741

cooking										
Gender mainstreaming through SHGs	39	122	436	558	37	275	312	159	711	870
Storage loss minimization techniques	50	129	577	706	52	348	400	181	925	1106
Value addition	135	247	1757	2004	97	1020	1117	344	2777	3121
Women empowerment	62	112	832	944	22	497	519	134	1329	1463
Location specific drudgery reduction technologies	39	49	456	505	50	321	371	99	777	876
Rural Crafts	25	42	377	419	3	72	75	45	449	494
Women and child care	82	304	972	1276	61	503	564	365	1475	1840
Others	50	196	548	744	69	346	415	265	894	1159
Total	855	2613	10221	12834	943	5738	6681	3556	15959	19515
VI Agril. Engineering										
Farm Machinery and its maintenance	67	960	128	1088	294	42	336	1254	170	1424
Installation and maintenance of micro irrigation systems	29	275	162	437	136	78	214	411	240	651
Use of Plastics in farming practices	18	187	100	287	119	28	147	306	128	434
Production of small tools and implements	12	112	70	182	56	33	89	168	103	271
Repair and maintenance of farm machinery and implements	69	821	371	1192	190	120	310	1011	491	1502
Small scale processing and value addition	12	437	68	505	104	12	116	541	80	621
Post Harvest Technology	19	215	79	294	153	11	164	368	90	458
Others	37	647	61	708	198	35	233	845	96	941
Total	263	3654	1039	4693	1250	359	1609	4904	1398	6302
VII Plant Protection										
Integrated Pest Management	309	4647	455	5102	1660	581	2241	6307	1036	7343
Integrated Disease Management	180	2543	305	2848	1080	312	1392	3623	617	4240
Bio-control of pests and diseases	93	1283	409	1692	357	190	547	1640	599	2239
Production of bio control agents and bio pesticides	67	1012	149	1161	308	123	431	1320	272	1592
Others	83	1131	140	1271	571	263	834	1702	403	2105
Total	732	10616	1458	12074	3976	1469	5445	14592	2927	17519
VIII Fisheries										
Integrated fish farming	35	495	133	628	219	156	375	714	289	1003
Carp breeding and hatchery management	46	782	116	898	224	46	270	1006	162	1168
Carp fry and fingerling rearing	14	229	27	256	124	23	147	353	50	403

Composite fish culture	45	599	164	763	260	117	377	859	281	1140
Hatchery management and culture of freshwater prawn	7	109	22	131	80	21	101	189	43	232
Breeding and culture of ornamental fishes	12	170	110	280	108	29	137	278	139	417
Portable plastic carp hatchery	20	351	31	382	120	35	155	471	66	537
Pen culture of fish and prawn	9	140	16	156	50	8	58	190	24	214
Shrimp farming	3	56	8	64	28	16	44	84	24	108
Edible oyster farming	7	66	24	90	61	40	101	127	64	191
Pearl culture	5	62	20	82	28	8	36	90	28	118
Fish processing and value addition	17	238	76	314	99	44	143	337	120	457
Others	10	136	39	175	67	17	84	203	56	259
Total	230	3433	786	4219	1468	560	2028	4901	1346	6247
IX Production of Inputs at site										
Seed Production	74	1022	109	1131	414	98	512	1436	207	1643
Planting material production	21	368	43	411	99	31	130	467	74	541
Bio-agents production	5	80	12	92	29	10	39	109	22	131
Bio-pesticides production	12	240	31	271	92	10	102	332	41	373
Bio-fertilizer production	17	246	37	283	126	89	215	372	126	498
Vermi-compost production	36	512	92	604	249	88	337	761	180	941
Organic manures production	25	280	57	337	203	59	262	483	116	599
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	6	59	20	79	42	21	63	101	41	142
Small tools and implements	7	115	49	164	79	30	109	194	79	273
Production of livestock feed and fodder	12	172	40	212	120	34	154	292	74	366
Production of Fish feed	21	351	29	380	101	34	135	452	63	515
Mushroom Production	27	332	88	420	207	110	317	539	198	737
Apiculture	12	134	43	177	115	44	159	249	87	336
Others	18	272	27	299	67	20	87	339	47	386
Total	293	4183	677	4860	1943	678	2621	6126	1355	7481
X Capacity Building and Group Dynamics										
Leadership development	65	908	235	1143	343	229	572	1251	464	1715
Group dynamics	57	845	139	984	253	119	372	1098	258	1356
Formation and Management of SHGs	83	1037	346	1383	356	279	635	1393	625	2018
Mobilization of social	41	677	46	723	232	92	324	909	138	1047

capital										
Entrepreneurial development of farmers/youths	93	1350	394	1744	504	244	748	1854	638	2492
WTO and IPR issues	14	204	10	214	56	21	77	260	31	291
Others	63	1035	147	1182	305	74	379	1340	221	1561
Total	416	6056	1317	7373	2049	1058	3107	8105	2375	10480
XI Agro-forestry										
Production technologies	64	956	160	1116	373	109	482	1329	269	1598
Nursery management	37	562	130	692	257	101	358	819	231	1050
Integrated Farming Systems	32	390	88	478	210	79	289	600	167	767
Others	29	421	56	477	141	36	177	562	92	654
Total	162	2329	434	2763	981	325	1306	3310	759	4069
GRAND TOTAL	7152	95258	25932	121190	35864	19249	55113	131122	45181	176303

D) Rural Youths (ON Campus Trainings)

Areas of training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	77	940	186	1126	253	141	394	1193	327	1520
Training and pruning of orchards	11	147	14	161	43	10	53	190	24	214
Protected cultivation of vegetable crops	23	377	45	422	134	38	172	511	83	594
Commercial fruit production	40	594	111	705	188	34	222	782	145	927
Integrated farming	27	404	47	451	119	28	147	523	75	598
Seed production	69	832	168	1000	293	99	392	1125	267	1392
Production of organic inputs	36	488	46	534	116	38	154	604	84	688
Planting material production	10	122	27	149	27	42	69	149	69	218
Vermi-culture	28	279	22	301	117	80	197	396	102	498
Mushroom Production	72	847	184	1031	266	156	422	1113	340	1453
Bee-keeping	49	723	83	806	134	41	175	857	124	981
Sericulture	3	32	15	47	8	12	20	40	27	67
Repair and maintenance of farm machinery and implements	20	256	15	271	85	11	96	341	26	367
Value addition	41	154	394	548	51	194	245	205	588	793
Small scale processing	9	60	38	98	13	49	62	73	87	160
Post Harvest Technology	13	111	53	164	28	37	65	139	90	229
Tailoring and Stitching	16	10	155	165	13	105	118	23	260	283
Rural Crafts	23	18	328	346	4	79	83	22	407	429
Production of quality animal products	6	53	20	73	27	27	54	80	47	127
Dairying	31	384	56	440	136	97	233	520	153	673
Sheep and goat rearing	47	626	85	711	204	115	319	830	200	1030
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	9	106	3	109	112	14	126	218	17	235

Rabbit farming	3	44	6	50	8	1	9	52	7	59
Poultry production	28	317	33	350	151	71	222	468	104	572
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	6	93	15	108	32	19	51	125	34	159
Freshwater prawn culture	1	15	1	16	2	2	4	17	3	20
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	1	8	0	8	2	0	2	10	0	10
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	3	80	46	126	11	6	17	91	52	143
Fry and fingerling rearing	5	93	0	93	28	2	30	121	2	123
Other	38	547	201	748	168	56	224	715	257	972
TOTAL	745	8760	2397	11157	2773	1604	4377	11533	4001	15534

E) Rural Youths (OFF Campus trainings)

Areas of training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	59	851	137	988	174	80	254	1025	217	1242
Training and pruning of orchards	5	87	9	96	17	2	19	104	11	115
Protected cultivation of vegetable crops	7	101	21	122	44	18	62	145	39	184
Commercial fruit production	5	69	7	76	21	5	26	90	12	102
Integrated farming	9	119	22	141	43	11	54	162	33	195
Seed production	19	184	37	221	149	85	234	333	122	455
Production of organic inputs	14	175	40	215	91	82	173	266	122	388
Planting material production	3	30	2	32	37	23	60	67	25	92
Vermi-culture	4	18	2	20	19	41	60	37	43	80
Mushroom Production	25	252	104	356	145	78	223	397	182	579
Bee-keeping	7	99	15	114	37	18	55	136	33	169
Sericulture	1	10	0	10	5	0	5	15	0	15
Repair and maintenance of farm machinery and implements	3	40	0	40	32	18	50	72	18	90
Value addition	5	19	36	55	38	60	98	57	96	153
Small scale processing	2	7	4	11	3	25	28	10	29	39
Post Harvest Technology	2	8	5	13	8	24	32	16	29	45
Tailoring and Stitching	3	0	50	50	0	25	25	0	75	75
Rural Crafts	1	0	0	0	25	25	50	25	25	50
Production of quality animal products	6	61	31	92	24	36	60	85	67	152
Dairying	15	141	22	163	129	49	178	270	71	341
Sheep and goat rearing	15	131	70	201	114	126	240	245	196	441
Quail farming	3	0	0	0	71	29	100	71	29	100
Piggery	2	15	8	23	16	6	22	31	14	45
Rabbit farming	2	29	4	33	6	0	6	35	4	39
Poultry production	15	119	22	141	148	84	232	267	106	373

Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	6	58	12	70	38	25	63	96	37	133
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	1	12	0	12	8	0	8	20	0	20
Fish harvest and processing technology	1	14	2	16	2	2	4	16	4	20
Fry and fingerling rearing	1	16	0	16	8	1	9	24	1	25
Other	12	92	49	141	116	30	146	208	79	287
TOTAL	253	275	711	3468	156	1008	2576	432	1719	6044

E) Rural Youths (Consolidated ON+OFF Campus trainings)

Areas of training	No. of courses	OFF CAMPUS								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	136	1791	323	2114	427	221	648	2218	544	2762
Training and pruning of orchards	16	234	23	257	60	12	72	294	35	329
Protected cultivation of vegetable crops	30	478	66	544	178	56	234	656	122	778
Commercial fruit production	45	663	118	781	209	39	248	872	157	1029
Integrated farming	36	523	69	592	162	39	201	685	108	793
Seed production	88	1016	205	1221	442	184	626	1458	389	1847
Production of organic inputs	50	663	86	749	207	120	327	870	206	1076
Planting material production	13	152	29	181	64	65	129	216	94	310
Vermi-culture	32	297	24	321	136	121	257	433	145	578
Mushroom Production	97	1099	288	1387	411	234	645	1510	522	2032
Bee-keeping	56	822	98	920	171	59	230	993	157	1150
Sericulture	4	42	15	57	13	12	25	55	27	82
Repair and maintenance of farm machinery and implements	23	296	15	311	117	29	146	413	44	457
Value addition	46	173	430	603	89	254	343	262	684	946
Small scale processing	11	67	42	109	16	74	90	83	116	199
Post Harvest Technology	15	119	58	177	36	61	97	155	119	274
Tailoring and Stitching	19	10	205	215	13	130	143	23	335	358
Rural Crafts	24	18	328	346	29	104	133	47	432	479
Production of quality animal products	12	114	51	165	51	63	114	165	114	279
Dairying	46	525	78	603	265	146	411	790	224	1014
Sheep and goat rearing	62	757	155	912	318	241	559	1075	396	1471
Quail farming	3	0	0	0	71	29	100	71	29	100
Piggery	11	121	11	132	128	20	148	249	31	280
Rabbit farming	5	73	10	83	14	1	15	87	11	98
Poultry production	43	436	55	491	299	155	454	735	210	945

Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	12	151	27	178	70	44	114	221	71	292
Freshwater prawn culture	1	15	1	16	2	2	4	17	3	20
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	1	8	0	8	2	0	2	10	0	10
Cold water fisheries	1	12	0	12	8	0	8	20	0	20
Fish harvest and processing technology	4	94	48	142	13	8	21	107	56	163
Fry and fingerling rearing	6	109	0	109	36	3	39	145	3	148
Other	50	639	250	889	284	86	370	923	336	1259
TOTAL	998	11517	3108	14625	4341	2612	6953	15858	5720	21578

F) Extension Functionaries (ON Campus trainings)

Areas of training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	126	2163	124	2287	399	46	445	2562	170	2732
Integrated Pest Management	68	1220	39	1259	232	22	254	1452	61	1513
Integrated Nutrient management	63	1077	104	1181	299	69	368	1376	173	1549
Rejuvenation of old orchards	19	288	37	325	108	7	115	396	44	440
Protected cultivation technology	25	422	119	541	93	21	114	515	140	655
Production and use of organic inputs	34	529	59	588	175	32	207	704	91	795
Care & maintenance of farm machinery & implements	16	224	20	244	80	20	100	304	40	344
Gender mainstreaming through SHGs	20	125	178	303	41	49	90	166	227	393
Formation and Management of SHGs	20	198	126	324	36	78	114	234	204	438
Women and Child care	31	79	358	437	29	202	231	108	560	668
Low cost and nutrient efficient diet designing	24	44	366	410	15	109	124	59	475	534
Group Dynamics and farmers organization	4	16	55	71	4	29	33	20	84	104
Information networking among farmers	8	44	45	89	21	4	25	65	49	114
Capacity building for ICT application	15	294	24	318	30	10	40	324	34	358
Management in farm animals	30	508	107	615	102	49	151	610	156	766
Livestock feed and fodder production	32	527	26	553	109	12	121	636	38	674
Household food security	22	146	291	437	28	86	114	174	377	551
Other	58	841	495	1336	153	168	321	994	663	1657
TOTAL	615	8745	2573	11318	1954	1013	2967	10699	3586	14285

G) Extension Functionaries (OFF Campus trainings)

Areas of training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	91	157	7	162	239	7	246	181	6	186
Integrated Pest Management	45	579	53	632	115	22	137	694	75	769
Integrated Nutrient management	23	377	33	410	95	16	111	472	49	521
Rejuvenation of old orchards	8	139	5	144	24	11	35	163	16	179
Protected cultivation technology	20	359	7	366	79	1	80	438	8	446
Production and use of organic inputs	22	432	42	474	79	17	96	511	59	570
Care & maintenance of farm machinery & implements	7	102	4	106	48	2	50	150	6	156
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	6	55	27	82	20	24	44	75	51	126
Women and Child care	27	16	352	368	4	10	104	20	452	472
Low cost and nutrient efficient diet designing	13	68	164	232	23	42	65	91	206	297
Group Dynamics and farmers organization	2	30	0	30	0	0	0	30	0	30
Information networking among farmers	3	18	13	31	12	7	19	30	20	50
Capacity building for ICT application	5	64	8	72	16	5	21	80	13	93
Management in farm animals	21	378	37	415	59	20	79	437	57	494
Livestock feed and fodder production	16	302	7	309	70	7	77	372	14	386
Household food security	11	22	163	185	9	62	71	31	225	256
Other	49	703	284	987	122	26	384	825	546	1371
TOTAL	369	5221	1243	6464	1014	605	1619	6235	1848	8083

H) Extension Functionaries (ON+OFF Campus trainings)

Areas of training	No. of courses	OFF CAMPUS								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	217	3740	168	3908	638	53	691	4378	221	4599
Integrated Pest Management	113	1799	92	1891	347	44	391	2146	136	2282
Integrated Nutrient management	86	1454	137	1591	394	85	479	1848	222	2070
Rejuvenation of old orchards	27	427	42	469	132	18	150	559	60	619
Protected cultivation technology	45	781	126	907	172	22	194	953	148	1101
Production and use of organic inputs	56	961	101	1062	254	49	303	1215	150	1365
Care & maintenance of farm machinery & implements	23	326	24	350	128	22	150	454	46	500
Gender mainstreaming through SHGs	20	125	178	303	41	49	90	166	227	393
Formation and Management of SHGs	26	253	153	406	56	102	158	309	255	564

Women and Child care	58	95	710	805	33	302	335	128	101	1140
Low cost and nutrient efficient diet designing	37	112	530	642	38	151	189	150	681	831
Group Dynamics and farmers organization	6	46	55	101	4	29	33	50	84	134
Information networking among farmers	11	62	58	120	33	11	44	95	69	164
Capacity building for ICT application	20	358	32	390	46	15	61	404	47	451
Management in farm animals	51	886	144	1030	161	69	230	1047	213	1260
Livestock feed and fodder production	48	829	33	862	179	19	198	1008	52	1060
Household food security	33	168	454	622	37	148	185	205	602	807
Other									120	
	107	1544	779	2323	275	430	705	1819	9	3028
TOTAL	984	1396	381	1778	296	161	458	1693	5434	2236
		6	6	2	8	8	6	4		8

I) Sponsored Trainings

Areas of training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Increasing production and productivity of crops	148	5469	632	6101	154	3	186	7012	956	7968
Commercial production of vegetables	72	2698	259	2957	696	138	834	3394	397	3791
Production and value addition										
Fruit Plants	26	955	95	1050	197	53	250	1152	148	1300
Ornamental plants	3	128	16	144	16	7	23	144	23	167
Spices crops	5	69	35	104	12	4	16	81	39	1467
Soil health and fertility management	53	2134	185	2319	359	104	463	2493	289	2782
Production of Inputs at site	15	397	77	474	160	85	245	557	162	719
Methods of protective cultivation	11	274	52	326	90	39	129	364	91	3501
Others	42	887	181	1068	579	63	642	1466	244	1710
Total	375	13011	1532	14543	3652	817	4469	16663	2349	19012
Post harvest technology and value addition										
Processing and value addition	12	224	156	380	81	94	175	305	250	555
Others	15	423	166	589	38	13	51	461	179	640
Total	27	647	322	969	119	107	226	766	429	1195
Farm machinery										
Farm machinery, tools and implements	53	1671	589	2260	103	4	122	2705	782	3487
Others	7	131	5	136	20	14	34	151	19	170
Total	60	1802	594	2396	105	207	126	2856	801	3657
Livestock and fisheries										
Livestock production and management	33	1123	212	1335	473	207	680	1596	419	2015
Animal Nutrition Management	16	726	95	821	190	29	219	916	124	1040
Animal Disease Management	11	371	22	393	82	28	110	453	50	3055
Fisheries Nutrition	1	58	4	62	15	5	20	73	9	82

Fisheries Management	14	228	80	308	140	16	156	368	96	464
Others	3	73	3	76	23	24	47	96	27	546
Total	78	2579	416	2995	923	309	1232	3502	725	4227
Home Science										
Household nutritional security	7	0	166	166	43	51	94	43	217	260
Economic empowerment of women	4	7	83	90	0	14	14	7	97	104
Drudgery reduction of women	9	0	40	40	0	75	75	0	115	364
Others	6	74	110	184	55	128	183	129	238	367
Total	26	81	399	480	98	268	366	179	667	846
Agricultural Extension										
Capacity Building and Group Dynamics	20	434	96	530	275	112	387	709	208	917
Others	25	468	204	672	115	335	450	583	539	1122
Total	45	902	300	1202	390	447	837	1292	747	2039
GRAND TOTAL	611	19022	3563	22585	6236	2155	8391	25258	5718	30976

J) Vocational Trainings for Rural youths

Area of Training	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture	5	76	5	81	11	6	17	87	11	98
Commercial fruit production	4	66	4	70	22	3	25	88	7	95
Commercial vegetable production	8	98	19	117	33	16	49	131	35	166
Integrated crop management	14	203	22	225	70	30	100	273	52	325
Organic farming	19	271	39	310	90	62	152	361	101	462
Others	16	212	58	270	36	22	58	248	80	328
Total	66	926	147	1073	262	139	401	1188	286	1474
Post harvest technology and value addition										
Value addition	33	311	18	491	93	151	244	404	331	735
Others	6	23	46	69	6	52	58	29	98	127
Total	39	334	226	560	99	203	302	433	429	862
Livestock and fisheries										
Dairy farming	16	236	21	257	124	22	146	360	43	403
Composite fish culture	10	158	19	177	39	5	44	197	24	221
Sheep and goat rearing	24	410	52	462	134	37	171	544	89	633
Piggery	6	38	1	39	47	10	57	85	11	96
Poultry farming	10	112	25	137	64	27	91	176	52	228
Others	5	49	7	56	17	2	19	66	9	75
Total	71	1003	125	1128	425	103	528	1428	228	1656
Income generation activities										
Vermicomposting	28	282	50	332	156	147	303	438	197	635
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	5	86	4	90	12	31	43	98	35	133
	5	64	7	71	15	23	38	79	30	109

Repair and maintenance of farm machinery	4	43	7	50	30	10	40	73	17	90
and implements	2	28	4	32	9	4	13	37	8	45
Rural Crafts	4	34	10	44	1	40	41	35	50	85
Seed production	24	267	78	345	129	71	200	396	149	545
Sericulture	3	56	4	60	8	2	10	64	6	70
Mushroom cultivation	28	363	59	422	136	80	216	499	139	638
Nursery, grafting etc.	19	184	61	245	65	73	138	249	134	383
Tailoring, stitching, embroidery, dying etc.	2	4	6	10	9	21	30	13	27	40
Agril. para-workers, para-vet training	3	27	2	29	6	0	6	33	2	35
Others	18	167	44	211	21	15	36	188	59	247
Total	145	1605	336	1941	597	517	1114	2202	853	3055
Agricultural Extension										
Capacity building and group dynamics	21	215	10	320	50	101	151	265	206	471
Others	6	59	7	66	16	28	44	75	35	110
Total	27	274	112	386	66	129	195	340	241	581
Grand Total	348	4142	946	5088	1449	1091	2540	5591	2037	7628

Annex-II

Details of Projects/Programmes

S.No.	Name of Project/programme	Period	PI	Co-PI/Nodal Scientist
(a) National Programme				
1	Cluster Frontline Demonstrations (CFLD) on Pulses and Oilseeds (DAC, GOI)	2015-16 till date	Dr. S.K. Dubey	--
2	Crop Residue Management (CRM) Project (DAC, GOI)	2015-16 to 2021-22	Dr. S.K. Dubey	Dr. Raghwendra Singh
3	Cereal Systems Initiatives for South East Asia (CSISA)	2016-17 till date	Dr. S.K. Dubey	Dr. Raghwendra Singh
4	District Agro-Meteorology Unit (DAMU)	2017-18 till date	Dr. Raghwendra Singh	Dr. Seema Yadav
(b) ICAR Flagship Programme				
1	Farmer FIRST (Farm, Innovations, Resources, Science and Technology)	2015-16 to till date	Dr. S.K. Dubey as Member Secretary, ZPMC	Dr. Seema Yadav
2	Tribal Sub Plan/ Knowledge system & Home based Agricultural Management in Tribal Areas and Schedule Caste Sub Plan (TSP/KSHAMTA and SCSP)	2011-12 to till date	Dr. S.K. Dubey	Dr. Seema Yadav
3	National Innovation on Climate Resilient Agriculture (NICRA Project)	2016-17 to till date	Dr. S.K. Dubey	Dr. Raghwendra Singh
4	Mera Gaon Mera Gaurav (MGMG)	2016-17 to till date	Dr. Raghwendra Singh	Dr. Seema Yadav
5	Nutrition-sensitive Agricultural Resources and Innovation (NARI)	2020-21 till date	Dr. Sadhna Pandey	Dr. Seema Yadav
6	ARYA programme	2015-16 till date	Dr. S.K. Dubey	Dr. S.K. Singh
7	Agriculture Skill Council of India (ASCI Programme)	2016-17 till date	Dr. S.K. Dubey	Dr. Seema Yadav

ACHIEVEMENTS OF PROJECTS & FLAGSHIP PROGRAMMES

(1) NICRA (National Innovation on climate Resilient Agriculture)-17 KVKs

NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers
326	260.9	3239	1172.49	762	82.95	836	156	4206	209	7507
Total Demonstrations: 4327, Area: 1516.34 ha, Beneficiaries: 16040										

(2) ARYA (Attracting Rural Youths in Agriculture)

Sl. No.	Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
				Male	Female	Male	Female
1	Mushroom production	177	8	118	69	74	16
2	Quality seed and Planting material	20	1	18	2	18	2
3	Poultry	52	5	109	1	51	1
4	Goat farming	72	8	149	27	57	15
5	Bee keeping	11	4	69	25	14	0
6	Others if any- Vermi Compost	26	4	83	6	20	6
	Total	358	30	546	130	234	40

(3) IFS (Integrated Farming System)

Sl. No.	Component Name	No. of components established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1	Fish Cum Goat Unit	2	1.85	3	16	11	454
2	Dairy	2	0.3	1	7	2	10
3	Crop	2	1	1	3	2	4
4	Horticulture	4	2.2	2	5	7	9
5	Pond Based IFS Unit	4	1	1	2	10	60
6	Arhar + Bajra (Kharif)	2	6	3	5	12	4
9	Fishery + Poultry +	3	2.2	0	1	0	14

	Horticulture						
10	Livestock based + Goat + Fodder + Cow + Vermicompost	10	10	10	10	10	10
11	Paddy, Mustard + Banana	1	5	2	2	20	40
12	Agriculture + Horticulture + Floriculture under protected cultivation	3	5	1	2	15	40
13	Crop Production + Dairy + Fisheries	5	2.5	5	5	25	110
14	Crop + Husbandry	1	1	1	2	5	5
15	Live Stock Production	1	0.025	1	2	5	5
16	Poultry	1	0.025	1	2	5	5
17	Duckery	1	0.025	1	2	5	5
18	Fish based IFS Model	6	1	1	4	150	120
19	IFS Model (Fish+ Poultry+ Vermicompost + Vegetable+ Cereals+ Fodder+ Goat +Dairy)	2	3	8	5	130	97
20	Fish cum Dairy	1	0.72	1	17	2	543
21	Fish cum Duck	1	0.35	1	0	1	0
22	Diversified Farming	1	2	2	2	10	5
	TOTAL	53	45.445	46	94	427	1540

(4) TSP (Tribal Sub Plan) & KSHAMTA (Knowledge system & Home Stead Agriculture Management in Tribal Areas)

S.No.	Activities	Number
1	Farmers Training	
	No. of Trainings/Demons	84
	No. of Farmers	2622
2	Women Farmer Training	
	No. of Trainings/Demons	19
	No. of women farmers	525
3	Rural Youths	
	No. of Trainings/Demons	15
	No. of youths	390
4	Extension Personnel	
	No. of Trainings/Demons	2
	No. of Extension Persons	33
	Total Trainings	120
	Total Participants	3570
5	Number of farmers involved	
	On- farm trials	17
	Frontline demos	3517

	Mobile agro- advisory to farmers	1576
6	Participants in extension activities (No.)	2654
7	Production of seed (q)	45
8	Production of Livestock strains (No. in lakh)	18
9	Production of fingerlings (No in lakh)	0.8
10	Testing of Soil, water, plant, manures samples (Number)	187

(5) SCSP (Scheduled Cast Sub Plan)

S.No.	Activities	Number
1	Farmers Training	
	No. of Trainings/Demons	515
	No. of Farmers	13188
2	Women Farmer Training	
	No. of Trainings/Demons	104
	No. of women farmers	2621
3	Rural Youths	
	No. of Trainings/Demons	121
	No. of youths	2480
4	Extension Personnel	
	No. of Trainings/Demons	25
	No. of Extension Persons	413
	Total Trainings	765
	Total Participants	18702
5	Number of farmers involved	
	On- farm trials	537
	Frontline demos	5289
	Mobile agro- advisory to farmers	47813
6	Participants in extension activities (No.)	9688
7	Production of seed (q)	253.35
8	Production of Planting material (No. in lakh)	0.40
9	Production of fingerlings (No. in lakh)	1.52
10	Testing of Soil, water, plant, manures samples (No.)	4282

(6) Farmer FIRST programme

6.1 Module wise summary at a glance

Crop Module		Horticulture Module		Livestock & Poultry		IFS Model		Extension Activities	
Demo (No.)	No. of Farm Families	Demo (No.)	No. of Farm Families	Demo (No.)	No. of Farm Families	Demo (No.)	No. of Farm Families	No. of Program	No. of Farmers
1731	1685	1656	535	850	729	683	730	1960	6406
Total Demonstrations : 4920		Families Covered : 3679		Farmers Benefitted : 6406					

6.2 Crop Production:

S.No.	Name of Crop	Yield (Q/Ha.)			Net Income (Rs/Ha.)		
		Farmer Practices	Demo.	% Increase	Farmer Practices	Demo.	% Increase
1	Wheat	272.18	327.37	83.14	198159.1	516271.3	38.38
2	Oats	580	721	80.44	96000	140110	68.52
3	Barseem	798	1119	71.31	172833	263023	65.71
4	Paddy	76.91	99.74	77.11	96723	159470	60.65
5	Moongbean	15.62	19.05	81.99	75513	121810	61.99
6	Groundnut	14.5	17.25	84.05	43009	73766	58.30
7	Sorghum fodder	310	458	67.68	15680	24476	64.06
8	Chickpea	18.99	20.16	94.19	27832.5	39625	70.24
9	Field pea	25.30	27.10	93.35	37761.6	60826.5	62.08
10	Mustard	20.55	26.45	77.69	57873.8	85433.46	67.74

6.3 Horticulture Module:

S.No.	Name of Crop	Yield (Q/Ha.)			Net Income (Rs/Ha.)		
		Farmer Practices	Demo.	% Increase	Farmer Practices	Demo.	% Increase
1	Bottle Gourd	363	480	75.63	165063	239238	69.00
2	Cow Pea	86	123	69.92	142851	202664	70.49
3	Brinjal	589	718	82.03	350927	441918	79.41
4	Chilli	118	189	62.43	181920	233593	77.88
5	Tomato	530	697	76.04	256177	297975	85.97
6	Okra	122.89	192.69	63.78	151747.5	206692.5	73.42
7	Bell Pepper	248	355	69.86	245000	382600	64.04

6.4 Livestock & Poultry:

S.No.	Name of Animal	Production with unit (litre/kg/no.)			Net Income (Rs/Ha.)		
		Farmer Practices	Demo.	Farmer Practices	Demo.	% Increase	
1	Buffalo	16.64/day	20.44/day	24689	37704	65.481	
2	Cow	12.74/day	15.10/day	11009	18320	60.093	
3	Poultry	7825/eggs/month	782/eggs/month	15225	456030	3.339	

6.5 Enterprise Module:

S.No.	Name of Enterprise	Net Income (Rs/unit)
1	Vermi Compost	7115000
2	Mushroom Production	102630
3	Seed Production	1052115590
4	Processing & Value Addition	250550
5	Marketing by Farmers Group	937510.75

(7) CRM (Crop Residue Management)

7.1 IEC activities organized under CRM Project by KVKs

Name of IEC activity	No. of activities	No. of Participants	No. of KVKs
Kisan Melas organized	10	3981	28
Awareness programmes conducted at Village Panchayat/ Block/ District Level	107	10675	28
Mobilization of schools and colleges through essay competition, painting, debate etc.	65	10079	28
Demonstration conducted (ha)	1753.70	2569	28
Training Programmes conducted	33	979	28
Exposure visits organized	30	1666	28
Field /harvest days organized	18	1191	28
Total	263/1753.70 ha	31140	28

7.2 Other IEC activities organized under CRM Project by KVKs

Name of IEC activity	No. of activities	No. of KVKs
Advertisement in Print media	83	28
Column / Articles in newspaper and magazines etc.	363	28
Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	102	28
Poster/Banner placed	1645	28
Publicity material - leaflets/ pamphlets etc. distributed	112667	28
TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	123	28
Wall writing	892	28
Total	115875	28

7.3 CRM Machinery procured by KVKs

Name of the Machine/ Equipment	Number of the machine procured	No. of Demo. Conducted	Area covered (ha)	No. of farmers covered	Result					
					Demo yield (q/ha)	Check yield (q/ha)	Increase in yield %	Cost of cultivation (Rs/ha)	Net return(Demo plot)	B:C ratio
Happy Seeder	14	400	363.5	315	330.73	297.58	89.54	284317	536991	17.91
Reversible M.B. Plough	13	270	165.5	330	126.04	111	44.24	137895	157598	6.08
Paddy Straw Chopper/ Shredder / Mulcher	21	296	176	331	127.14	111.01	53.18	142049	155818	5.98
Zero Till Drill	11	285	255	290	176.09	156.12	67.34	160487	248005	9.38
Rotavator	7	131	35	131	127.85	112.97	49.49	111190	237405	5.43
Tractor	7	100	100	145	50.58	47.06	7.48	63863	42363	1.66
Total	73	1482	1095	1542	938.43	835.74	311.27	899801	1378180	46.44

(8) DAMU Project (Distt. Agrometeorology Unit)

S.No.	Activity	No.
1	Number of Ago. Advisory services (AAS)	2950
2	Number of Farmer Awareness Programs (FAP)	60
3	Number of Trainings	33
4	Number of Bulletins	950
5	Number of Whatsapp Messages	7640
6	Diagnostic Field visit	95
7	Number of Radio talk	6
8	Number of TV talk	21
9	Number of Articles/News published in newspapers	225

(9) Pulses Seed Hub

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed (F/S, C/S)	Sold to No. of Farmers
			Target (q)	Area sown (ha)	Actual Production (q)		
Kharif	Black gram	IPU 13-1, IPU 11-2	12	4.19	5.25	F/S	30
	Green Gram	SHIKHA	100	5	21.06	F/S	60
	Pigeon pea	IPA 15-2, RA-1	100	6	26.56	F/S, C/S	48
Total			212	15.19	52.87		138
Rabi	Chick pea	KGD-1168, KWR-108, KGD-1168, KWR-108, JG-24, IPC 2006-77, IPC 2005-62, IPC 2006-77, IPC 2006-77, IPC-2010-134, IPC-2011-112	92	14	143	F/S, F/S II, C/S	52
	Field pea	KPMR-400, KPMR-400, IPFD 12-2, IPFD 12-02, IPFD 13-02, IPFD 13-2	63	1.96	29	F/S, F/S II, C/S	42
	Lentil	IPL-220, IPL-315, L-4717, IPL-220	115	7	54.2	F/S, C/S	74
Total			270	22.96	226.2		168
Summer	Greengram	IPM 409-4, IPM 410-3, IPM 205-7, IPM 2K 14-2, SHIKHA & KANIKA	5	1	48.5	F/S, F/S II, C/S	35
Total			5	1	48.5		35
Grand Total			487	39.15	327.57		341

(10) Skill Development Training (ASCI)

S.No.	Enterprise	Name of QP/ Job role	Duration (hrs)	No. of Courses Organize d	No. of participants						Total
					SC/STs		Others		Total		
					Male	Female	Male	Female	Male	Female	
1	Agriculture Crop Production	Vegetable Grower	200	1	0	0	40	0	40	0	40
2	Agriculture Crop Production	Power Tiller Operator	4	4	15	5	15	5	5	5	50
3	Animal Husbandry	Stud Farm Worker	1	10	2	12	0	0	0	0	0
4	Agriculture Crop Production	Mushroom Grower	205	15	17	17	55	5	45	5	90
5	Agriculture Crop Production	Orchard Worker	200	1	0	0	20	0	20	0	20
6	Agriculture Crop Production	Vermicompost Producer Small Units/(RPL)	237	2	9	2	32	17	41	19	60
7	Agriculture Crop Production	Producer Small Units	210	1	4	0	14	2	18	2	20
			1057	34	47	36	176	29	169	31	280

(11) NARI Programme (Nutrition- sensitive Agricultural Resources and Innovation)

11.1 Various program organized under NARI

ICAR ATARI	Nutritional Garden		Bio-fortified crops/variety		Value addition		Training programmes		Extension activities	
	No of units Established	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers	No of activity	No. of farmers
Zone-III Kanpur (41 KVKs)	1430	2328	101	1218	101	1642	297	7436	238	13985

11.2 Bio- fortified Crop used for nutritional security

Category	Bio Fortified Crop	Variety	Area (ha)	No. of Beneficiaries
Cereal	Rice	CR Dhan 310, HUR 917, Zinco Rice MS/ DRR 45, HUR 917	13.00	37
Cereals	Wheat	DBW 187, DBW-303, HD-3298, DBW-332, WB 2, K-1006, HI-8759	150.20	664
Millet	Finger millet	ML 365, VL-376,	5.00	25
Millet	Pearlmillet	RD-2907, AHB-1200, MPMH 21, HHB-311	12.24	33
Millet	Barnyard millet	DHBM 93-2	0.50	5
Millet	Sorghum	CSV 15	4.50	25
Pulses	Lentil	Pusa Masoor Ageti	10.00	25
Oilseed	Mustard	PM-31, PM-33	12.20	47
Vegetable	Palak	Vilayti Palak	0.001	10
Tuber	Potato	Kufri Neel kanth	0.005	5
Vegetable	Cauliflower	Pusa Beta Kesari-1	0.40	43
Vegetable	Moringa	PKM-1	1.00	10
Vegetable	Radish	Pusa Jamuni	0.001	10
Total			209.05	939

(12) Natural Farming

Table-12.1: Achievements under Natural Farming

Sr. No.	Name of KVKs	No of Training Prog.	No. of Participants in training	No. of Awareness Prog.	No. of Participants in Awareness Prog.	No. of Demos Conducted
1	Bahraich-I	2	80	1	195	3
2	Basti	2	80	1	198	5
3	Ballia	2	80	5	329	5
4	Mau	2	80	1	193	5
5	Varanasi	2	67	1	200	4
6	Siddharthnagar	2	75	1	202	5
7	Ayodhya (Faizabad)	2	80	1	200	5
8	Sonbhadra	2	75	1	210	5
9	Azamgarh-I	2	80	1	200	7
10	Barabanki	2	80	1	400	5
11	Chandoli	2	80	1	250	5
12	St. Kabir Nagar	2	79	2	393	5
13	Amethi	2	80	1	202	8
14	Jhansi	1	40	0	0	5
15	Mahoba	1	25	1	150	5
16	Hamirpur	2	80	1	50	5
17	Jalaun	1	40	3	285	5
18	Lalitpur	2	95	1	55	5
19	Banda	2	73	3	285	5
20	Fatehpur	2	100	10	250	5
21	Aligarh	2	85	3	220	5
22	Kannauj	2	85	3	265	10
23	Etawah	1	40	2	210	5
24	Farrukhabad	1	41	2	245	6
25	Kasganj	2	80	2	210	5
26	Raibarely-II	2	69	3	255	6
27	Bijnore	1	80	2	125	5
28	Budaun	2	72	3	210	5
29	Shahjahanpur	2	80	2	150	10
30	Meerut	1	40	1	186	4
31	Muzaffarnagar-II	1	45	1	175	5
32	Bulandshahr	2	88	10	195	5
33	Amroha	2	80	5	320	10
34	Hapur	2	80	5	187	10
35	Sambhal	2	60	4	185	10
36	Bareilly	1	75	1	280	8
37	Lucknow	2	80	2	150	5
38	Kushinagar	2	71	4	321	10
39	St. Ravidas Nagar	1	20	3	150	10
40	Hardoi-II	2	100	4	250	7

41	Sultanpur-I	2	100	2	110	8
42	Mirzapur	2	80	2	145	5
43	Gonda-I	2	80	5	240	8
44	Chitrakoot	2	95	5	340	10
45	Allahabad	3	110	2	205	10
46	Pratapgarh	2	100	1	190	8
47	Unnao	2	128	8	295	9
48	Ghazipur-I	1	40	2	154	5
49	Etah	3	102	1	95	5
50	Kaushambi	2	165	10	274	10
51	Sitapur-II	7	82	12	261	7
52	Gorakhpur-II	3	160	1	110	5
Total		101	4082	150	10955	333

Table-12.2: KVKs (52) under natural farming in Uttar Pradesh

Sl. No	KVK (on Bank of river Ganga)	Host	Sl. No	KVK (away from Bank of river Ganga)	Host
1	Bijnor	SVPUAT Meerut	27	Bareilly	ICAR-IVRI, Bareilly
2	Bulandshahar	SVPUAT Meerut	28	Etah	RBS College, Agra
3	Hapur	SVPUAT Meerut	29	Etawah	CSAUAT Kanpur
4	Meerut	SVPUAT Meerut	30	Sitapur-II	RRDCA, Amethi
5	Muzaffarnagar-I	SVPUAT Meerut	31	Bahraich-I	ANDUAT Ayodhya
6	Aligarh	CSAUAT Kanpur	32	Siddharthnagar	ANDUAT Ayodhya
7	Kasganj	CSAUAT Kanpur	33	Gonda-I	DRI, New Delhi
8	Sambhal	SVPUAT Meerut	34	Barabanki	NDUA&T, Ayodhya
9	Amroha	SVPUAT Meerut	35	Lucknow	ICAR-IISR, Lucknow
10	Budaun-I	SVPUAT Meerut	36	Jalaun	BUAT Banda
11	Shahjahanpur	SVPUAT Meerut	37	Jhansi	BUAT Banda
12	Hardoi-II	ICAR-CSSRI, Karnal	38	Lalitpur	BUAT Banda
13	Raibareli-II	CSAUAT Kanpur	39	Mahoba	BUAT Banda
14	Farrukhabad	CSAUAT Kanpur	40	Hamirpur	BUAT Banda
15	Kannauj	CSAUAT Kanpur	41	Banda	BUAT Banda
16	Chandauli	ANDUAT Ayodhya	42	Chitrakoot	DRI, New Delhi
17	Prayagraj -I	SHUATS Allahabad	43	Amethi	RRDCA, Amethi
18	Kaushambi	DBRAWS, Allahabad	44	Ayodhya (Faizabad)	ANDUAT Ayodhya
19	Fatehpur	CSAUAT Kanpur	45	Basti	ANDUAT Ayodhya
20	Pratapgarh	RASMES, Pratapgarh	46	Sant Kabir Nagar	ANDUAT Ayodhya
21	Bhadohi	ICAR-IIVR, Varanasi	47	Gorakhpur-II	GGSS, Gorakhpur
22	Mirzapur	BHU, Varanasi	48	Kushinagar	ICAR-IIVR, Varanasi
23	Ghazipur-I	PG College,	49	Sultanpur	KNMT, Sultanpur

		Ghazipur			
24	Varanasi	ANDUAT Ayodhya	50	Mau	ANDUAT Ayodhya
25	Ballia	ANDUAT Ayodhya	51	Azamgarh-I	ANDUAT Ayodhya
26	Unnao	KRBSES, Unnao	52	Sonbhadra	ANDUAT Ayodhya

Table-12.3: Achievements of activities under natural farming

Awareness Programmes		Trainings		Demonstrations	
No. of programmes	No. of participants	No. of trainings	No. of participants	No. of Demos	No. of participants
245	21482	43	1874	395	768

Table-12.4: Performance of some other promoting wheat varieties under Natural farming

Name of KVK	Variety	Under Natural farming			Under Farmers Practice			Yield difference (q/ha)	Cost saving in Natural farming (Rs./ha)
		Total Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)	Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)		
Mahoba	Sriram Super 303	1.2	40.25	34450	2.4	47.25	36833.33	-7	2383.33
Sultanpur	Sriram Super 303	0.65	0.65	23500	0.45	0.45	28500	0.2	5000
Jhansi	Sriram Super 303	0.8	26.4	26325	0.8	46.25	32250	-19.85	5925
Mirzapur	Sriram Super 303	0.06	28.7	15700	1.5	32.58	27500	-3.88	11800
Total/Avg.		2.71	24	24993.75	5.15	31.63	31270.83	-7.6325	6277.08
Muzaffarnagar	DBW 173	0.8	40.73	21725	0.4	48.05	43610	-7.32	21885
Hapur	DBW 173	5.4	30.23	12750	6	38.1	37526.67	-7.87	24776.67
Meerut	DBW173	0.4	27.4	19880	0.4	46.9	38350	-19.5	18470
Amroha	DBW-173	5.6	34	35485.71	5.2	41.69	44830.77	-7.69	9345.06
Total/Avg.		12.2	33.09	22460.17	12	43.68	41079.36	-10.595	18619.18
Bahraich	Bansi	0.2	30.2	18950	1	52.3	42890	-22.1	23940
Amethi	Bansi	0.4	31	30100	0.8	37	37150	-6	7050
Muzaffarnagar	Bansi	0.8	29.75	21691	0.8	31.35	42957.5	-1.6	21266.5
Total/Avg.		13.6	31.01	23300.29	14.6	41.08	41019.21	-10.07	17718.92
Bahraich	DBW-222	0.2	28.6	24320	1	53.2	41365	-24.6	17045
Sitapur	DBW-222	0.4	25.1	26350	0.4	36.2	29420	-11.1	3070
Basti	DBW-222	6.4	25.73	26467.14	6.4	37.08	44112.38	-11.35	17645.24
Total/Avg.		20.6	27.61	25109.35	22.4	41.89	38979.14	-14.28	13869.79
Bahraich	HD-3271	0.2	28.4	26540	0.8	52.4	43650	-24	17110
Chandoli	HD-3271	0.4	10	20360	0.4	31.2	20400	-21.2	40
Amethi	HD-3271	0.4	14.3	31450	0.4	18.5	36800	-4.2	5350
Total/Avg.		21.6	20.0775	25864.83	24	35.99	34957.28	-15.92	9092.44
Jhansi	WH-147	0.4	19.25	28250	0.4	31.25	35000	-12	6750
Mahoba	WH-147	1.6	25.25	29600	2.6	39.65	45950	-14.4	16350
Total/Avg.		24	19.71	28791.21	27.4	31.34	38176.82	-11.63	9385.61
Mahoba	Raj-4120	0.4	30	27500	0.6	45	46500	-15	19000
Jhansi	Raj 4120	0.8	23	27675	0.8	38.13	33750	-15.13	6075
Total/Avg.		26.8	24.49	28391.55	31.4	38.53	41094.205	-14.04	12702.65
Muzaffarnagar	DBW 71	0.4	40.5	22115	0.4	45.5	43790	-5	21675
Sitapur	DBW 71	0.4	23.4	28750	0.4	37.8	36250	-14.4	7500
Total/Avg.		28.4	27.84	26732.88	33	39.99	38721.05	-12.14	11988.16
Unnao	HD3249	0.4	15.5	30500	1	38.5	38500	-23	8000
Gorakhpur	HD3249	1.2	20.73	18306.67	2.4	48.17	38411.67	-27.44	20105
Total/Avg.		30.4	21.86	26072.38	36.8	41.11	37970.68	-19.24	11898.29

Table-12.5: Performance of Mustard variety RH-725

Name of KVK	Variety	Under Natural farming			Under Farmers Practice			Yield difference (q/ha)	Cost saving in Natural farming (Rs./ha)
		Total Area(ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)	Area(ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)		
Etawah	RH-725	3.00	13.56	17295	4.00	15.53	19780.00	-1.97	2485.00
Muzaffarnagar	RH-725	1.20	17.45	17680	1.20	26.32	31250.00	-8.87	13570.00
Mirzapur	RH-725	0.19	16.55	13520	0.40	13.35	18640.00	3.2	5120.00
St. Kabir Nagar	RH-725	2.85	9.85	14511.11	3.80	14.98	19877.00	-5.13	5365.89
Total/Avg		7.24	14.3525	15751.5275	9.40	17.545	22386.75	-3.19	6635.22

Table-12.6: Performance of Chickpea (IPC-06-77)

Name of KVK	Variety	Under Natural farming			Under Farmers Practice			Yield difference (q/ha)	Cost saving in natural farming (Rs./ha)
		Total Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)	Total Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)		
Jhansi	IPC-06-77	0.12	8.22	22950	0.13	13.5	25600	-5.28	2650
Mahoba	IPC-06-77	0.13	12.56	49654	0.13	22	38218	-9.44	-11436
Mirzapur	IPC-06-77	0.13	8.25	13540	0.25	17.25	23095	-9	9555
Hamirpur	IPC-06-77	4.22	12.33	12780	4.8	17.31	25889.17	-4.98	13109.17
Total/Avg		4.6	10.34	24731	5.31	17.515	28200.54	-7.175	3469.54

Table-12.7: Performance of Fieldpea variety IPF 4-9 and Prakash

Name of KVK	Variety	Under Natural farming			Under Farmers Practice			Yield difference (q/ha)	Cost saving in Natural farming (Rs./ha)
		Total Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)	Area (ha)	Average Yield (Q/ha)	Average Cost of Cultivation (Rs./ha)		
Kasganj	IPF -04	5.25	15.26	12756	4	13.2	14500	2.06	1744
Mirzapur	IPF -04	0.31	12.35	13245	1.37	11.88	12750	0.47	-495
Total/Avg.		5.56	13.805	13000.5	5.37	12.54	13625	1.265	624.5
Lalitpur	Prakash	5.25	14.58	15740	7.54	16.55	23557.5	-1.97	7817.5
Mirzapur	Prakash	0.58	16.55	13580	3.25	15.35	23557.5	1.2	9977.5
Total/Avg.		5.83	15.565	14660	10.79	15.95	23557.5	-0.385	8897.5

(13) CSISA (Cereal System Initiative for South Asia) project

Sl. No.	Name of Programme	Number/quantity	No. of farmers benefitted
1	Plantation paddy up pulling	21	21
2	DSR	19	19
3	Training	5	125
4	Kisan Mela	2	150
	Total	47	315

(14) MGMG (Mera Gaon Mera Gaurav)

No. of institutes/ universities involved	Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefitted (No.)
13 Instts. & 2 Univ.	62	275	345	301	502	2825

(15) RWHS (Rainwater Harvesting Structures)

Sr. No.	Activities	Number
1	Training programmes	25
2	Demonstration	12
3	Plant materials produced	75600
4	Visit by farmers	18300
5	Visit by officials	145

(16) Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	168	1406
2	Road, drain cleaning	448	6072
3	Garbage disposal	322	2988
4	Door to door awareness	362	6087
5	Awareness campaign	413	13499
6	Nookkad Drama	479	384
7	School Drama	575	606
8	School rally	382	5255
9	Writing painting slogans	247	1241
10	Composting	232	1944
11	Other	267	2820
	Total	3896	42302

Annex-IV

Infrastructure Facilities at KVKs

S. No.	KVK District	SAU/ ICAR/ E dn/ NGO	Year of estt.	Farm (in ha)	Admin Bldg	Staff Quarter	Farmers Hostel	Threshing Floor	Tube well	Drip Irrig.	S&W Test. Lab	Fencing	Soil Testing Kit (Proc.)	Rain Water Harv. Stru.	Demo Units (ICAR)	Demo Units (Others)	IFS	Minimal Proc fac.	e-Conn. (ERNET)	Carp Hatch.	Solar Panel	Tech. Inf. Unit	Micro Nut. Fac.	Mini Seed Proc. Fac.	Four Wh	Two Wh.	Tractor	Agri Drone	Gen set		
A) B) ANDUAT, Ayodhya																															
1	Bahraich-I	SAU	1983	13.600	Y	Y	Y	Y	Y	Y	Y	Y	1	N	3	5	N	N	N	N	N	N	N	N	N	Y	1	Y	Y	N	
2	Basti	SAU	1989	20.000	Y	Y	Y	Y	Y	N	Y	Y	1	N	2	1	N	N	N	N	Y	N	N	N	N	Y	1	Y	N	N	
3	Ballia	SAU	1984	9.600	Y	Y	Y	Y	Y	N	Y	Y	-	N	2	-	N	N	N	N	N	N	N	N	N	Y	2	Y	N	N	
4	Mau	SAU	1989	21.000	Y	Y	Y	Y	Y	N	Y	N	-	N	2	-	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
5	Varanasi	SAU	1989	12.350	Y	Y	Y	Y	Y	N	Y	Y	-	N	5	-	Y	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
6	Siddharthnagar	SAU	1992	16.400	Y	Y	Y	Y	Y	Y	Y	Y	1	N	4	-	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
7	Faizabad	SAU	2004	20.000	Y	Y	Y	Y	Y	N	Y	Y	1	N	2	1	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
8	Gorakhpur-I	SAU	2004	13.110	Y	Y	N	Y	Y	N	Y	Y	1	N	1	-	N	N	N	N	N	N	N	N	N	Y	2	Y	N	N	
9	Mahrajganj	SAU	2004	4.000	Y	Y	Y	Y	Y	N	Y	Y	-	N	2	1	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
10	Sonbhadra	SAU	2004	4.800	N	N	N	Y	Y	Y	Y	N	1	N	3	-	N	N	N	N	N	N	N	N	N	Y	2	Y	N	N	
11	Azamgarh	SAU	2004	17.000	Y	Y	Y	Y	Y	N	Y	Y	-	N	3	1	N	N	N	N	N	N	N	N	N	Y	2	Y	N	N	
12	Barabanki	SAU	2004	12.500	Y	Y	Y	Y	Y	N	Y	Y	-	N	2	-	N	N	N	N	Y	N	N	N	N	Y	2	Y	N	N	
13	Balrampur	SAU	2005	16.320	Y	Y	Y	Y	Y	Y	N	Y	-	N	2	-	N	N	N	N	Y	N	N	N	N	Y	1	Y	N	N	
14	Chandoli	SAU	2005	8.000	Y	Y	Y	Y	Y	Y	Y	Y	-	N	3	-	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
15	Jaunpur-I	SAU	2005	7.200	Y	Y	Y	Y	Y	N	Y	Y	-	N	6	-	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
16	Sant Kabir Nagar	SAU	2009	24.000	Y	Y	Y	N	Y	N	N	N	-	N	6	-	N	N	N	N	N	N	N	N	N	Y	1	Y	N	N	
17	Ambedkar Nagar	SAU	2010	9.735	Y	Y	Y	N	Y	N	N	N	-	N	6	2	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
18	Amethi	SAU	2018	13.000	N	N	N	N	N	N	N	N	-	N	-	5	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
19	Bahraich-II	SAU	2018	12.000	N	N	N	N	N	Y	N	N	-	N	-	3	N	N	N	N	N	N	N	N	N	Y	0	N	N	N	
20	Jaunpur-II	SAU	2018	9.200	N	N	N	N	N	N	N	N	-	N	-	3	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
21	Sultanpur-II	SAU	2018	14.707	N	N	N	N	N	N	N	N	-	N	11	-	N	N	N	N	N	N	N	N	N	Y	0	N	N	N	
22	Gonda-II	SAU	2018	12.332	N	N	N	N	N	N	N	N	-	N	5	-	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
23	Ghazipur-II	SAU	2018	13.600	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
24	Shravasti	SAU	2020	21.227	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
25	Azamgarh-II	SAU	2021	8.151	N	N	N	N	N	N	N	N	-	N	1	-	N	N	N	N	N	N	N	N	N	Y	0	Y	N	N	
C) BUAT, Banda																															
26	Jhansi	SAU	1984	22.500	Y	Y	N	N	Y	N	Y	N	2	N	1	3	Y	N	Y	N	Y	Y	N	N	N	Y	1	Y	N	N	
27	Mahoba	SAU	2004	8.000	Y	Y	Y	N	Y	N	Y	N	2	N	2	-	Y	N	Y	N	N	N	N	N	N	Y	1	Y	N	N	
28	Hamirpur	SAU	2005	12.700	Y	Y	N	Y	Y	N	N	N	2	N	2	1	Y	N	Y	N	N	Y	N	N	N	Y	0	N	N	N	
29	Jalaun	SAU	2005	23.300	Y	Y	Y	N	Y	N	N	Y	2	N	1	-	Y	N	Y	N	N	Y	N	N	N	Y	1	Y	N	N	

S. No.	KVK District	SAU/ ICAR/ Edm/ NGO	Year of estt.	Farm (in ha)	Admin Bldg	Staff Quarter	Farmers Hostel	Threshing Floor	Tube well	Drip Irrig.	S&W Test. Lab	Fencing	Soil Testing Kit (Proc.)	Rain Water Harv. Stru.	Demo Units (ICAR)	Demo Units (Others)	IFS	Minimal Proc fac.	e-Conn. (ERNET)	Carp Hatch.	Solar Panel	Tech. Inf. Unit	Micro Nut. Fac.	Mini Seed Proc. Fac.	Four Wh	Two Wh.	Tractor	Agri Drone	Gen set		
30	Lalitpur	SAU	2005	20.330	Y	Y	N	Y	Y	N	N	Y	2	N	3	2	Y	N	Y	N	Y	Y	N	N	Y	1	Y	Y	Y		
31	Banda	SAU	2007	8.890	Y	N	Y	N	Y	N	N	N	2	N	3	-	Y	N	Y	N	N	N	N	N	Y	0	Y	N	N		
32	Prayagraj-II	SAU	2020	9.647	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N		
D) CSAUAT, Kanpur																															
33	Raebareli-I	SAU	1984	9.800	Y	Y	Y	N	Y	N	Y	Y	2	N	3	2	N	N	N	N	Y	N	N	N	Y	1	Y	N	N		
34	Fatehpur	SAU	1989	10.200	Y	N	Y	N	Y	Y	Y	Y	2	N	3	2	N	N	N	N	N	N	N	N	Y	1	Y	N	N		
35	Aligarh	SAU	1992	20.000	Y	Y	Y	N	Y	N	Y	Y	2	N	2	2	N	N	N	N	N	N	N	N	Y	2	Y	N	N		
36	Kannauj	SAU	2004	10.000	Y	Y	Y	N	Y	N	N	Y	2	N	3	-	N	N	N	N	Y	N	N	N	Y	1	Y	N	N		
37	Etawah	SAU	2004	6.500	Y	Y	N	Y	Y	N	N	Y	2	N	2	-	N	N	N	N	N	N	N	N	Y	1	Y	N	N		
38	Mainpuri	SAU	2004	10.000	Y	Y	Y	N	Y	N	Y	N	2	N	3	-	N	N	N	N	N	N	N	N	Y	2	Y	N	N		
39	Kanpur Dehat	SAU	2004	20.000	Y	N	Y	N	Y	N	Y	N	3	N	3	2	N	N	N	N	Y	N	N	N	Y	1	Y	N	N		
40	Firozabad	SAU	2004	20.000	Y	Y	Y	Y	Y	N	N	Y	2	N	2	2	N	N	N	N	N	N	N	N	Y	1	Y	N	N		
41	Lakhimpur Kheri	SAU	2005	20.000	Y	Y	Y	Y	Y	N	N	Y	2	N	1	-	N	N	N	N	N	N	N	N	Y	1	Y	N	N		
42	Farrukhabad	SAU	2005	20.000	Y	Y	Y	Y	Y	N	N	Y	2	N	-	-	N	N	N	N	N	N	N	N	Y	1	Y	N	N		
43	Hardoi-I	SAU	2005	16.000	Y	Y	N	Y	Y	N	N	Y	2	N	2	1	N	N	N	N	Y	N	N	N	Y	1	Y	N	N		
44	Mahamaya Nagar	SAU	2009	20.755	Y	Y	Y	N	Y	N	N	N	2	N	2	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N		
45	Kasganj	SAU	2018	9.200	Y	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	N	0	Y	N	N		
46	Raebareili-II	SAU	2021	10.223	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	N	0	N	N	N		
47	Auraiya	SAU	2007	20.679	Y	N	Y	N	Y	N	N	N	2	N	7	-	Y	N	Y	N	N	N	N	N	Y	1	Y	N	Y		
E) SVPUAT, Meerut																															
48	Bijnor	SAU	1992	13.350	Y	Y	Y	Y	Y	N	Y	Y	2	N	-	2	N	N	N	N	N	N	N	N	Y	1	Y	Y	N		
49	Rampur	SAU	1992	12.813	Y	Y	Y	Y	Y	N	Y	Y	1	N	3	1	N	N	N	N	N	Y	N	N	Y	1	Y	N	Y		
50	Budaun-I	SAU	1992	22.280	Y	Y	Y	Y	Y	N	Y	Y	2	N	3	-	N	N	N	N	N	Y	N	N	Y	1	Y	N	N		
51	Saharanpur	SAU	1992	10.109	Y	Y	Y	Y	Y	N	Y	Y	2	N	3	2	Y	N	N	N	N	Y	N	N	Y	1	Y	N	N		
52	Ghaziabad	SAU	1992	15.640	Y	Y	Y	Y	Y	N	N	Y	2	N	5	2	Y	N	N	N	N	Y	N	N	Y	2	Y	N	N		
53	Shahjahanpur	SAU	1994	18.314	Y	Y	Y	Y	Y	N	Y	Y	2	N	5	-	N	N	Y	N	N	Y	N	N	Y	1	Y	N	N		
54	Meerut	SAU	1994	8.820	Y	Y	Y	Y	Y	N	Y	Y	2	Y	5	2	Y	N	Y	N	N	Y	N	N	Y	1	Y	N	N		
55	Muzaffarnagar-I	SAU	1994	10.600	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	1	N	N	N	N	N	Y	N	N	Y	1	Y	N	N		
56	Pilibhit	SAU	1998	12.000	Y	Y	Y	Y	Y	N	Y	Y	1	N	3	-	N	N	Y	N	N	N	N	N	Y	1	Y	N	N		
57	Baghpat	SAU	2004	12.560	Y	Y	Y	Y	Y	N	N	Y	2	N	3	-	Y	N	Y	N	N	Y	N	N	Y	1	Y	N	N		
58	Moradabad	SAU	2005	17.500	Y	Y	Y	Y	Y	N	Y	Y	1	N	2	-	N	N	Y	N	N	Y	N	N	Y	1	Y	N	Y		
59	Gautam Budha Nagar	SAU	2005	15.640	Y	Y	Y	Y	Y	N	Y	Y	2	N	3	-	Y	N	Y	N	N	N	N	N	Y	1	Y	N	N		
60	Bulandshahr	SAU	2004	15.549	N	Y	Y	Y	Y	N	N	Y	2	N	-	-	Y	N	Y	N	N	Y	N	N	Y	1	Y	N	N		
61	Shamli	SAU	2018	8.547	N	N	N	N	N	N	N	N	-	N	4	-	N	N	N	N	N	N	N	N	Y	0	Y	Y	N		
62	Sambhal	SAU	2018	12.000	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	N	N	N		
63	Budaun-II	SAU	2018	12.150	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N		

S. No.	KVK District	SAU/ ICAR/ Edn/ NGO	Year of estt.	Farm (in ha)	Admin Bldg	Staff Quarter	Farmers Hostel	Threshing Floor	Tube well	Drip Irrig.	S&W Test. Lab	Fencing	Soil Testing Kit (Proc.)	Rain Water Harv. Stru.	Demo Units (ICAR)	Demo Units (Others)	IFS	Minimal Proc fac.	e-Conn. (ERNET)	Carp Hatch.	Solar Panel	Tech. Inf. Unit	Micro Nut. Fac.	Mini Seed Proc. Fac.	Four Wh	Two Wh.	Tractor	Agri Drone	Gen set
64	Amroha	SAU	2018	12.335	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N
65	Hapur	SAU	2018	12.000	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N
66	Muzaffarnagar-II	SAU	2018	12.419	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N
67	Moradabad-II	SAU	2020	12.00	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	Y	N	N
F)	ICAR Institute																												
68	Bareilly	ICAR	1985	6.900	Y	N	Y	N	Y	Y	Y	N	-	N	2	-	N	N	N	N	N	N	N	N	Y	1	Y	N	N
69	Lucknow	ICAR	1994	20.000	Y	N	N	N	Y	Y	N	N	1	N	5	-	Y	N	N	N	N	N	N	N	Y	1	Y	N	N
70	Lakhimpur Kheri-II	ICAR	2019	12.049	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	Y	0	N	N	N
71	Kushinagar	ICAR	2005	20.000	Y	Y	Y	N	Y	Y	Y	Y	-	N	2	-	Y	N	Y	N	N	N	N	N	Y	0	Y	N	Y
72	Sant Ravidas Nagar	ICAR	2008	18.416	Y	Y	Y	N	Y	Y	N	Y	2	N	5	-	Y	N	Y	N	Y	Y	N	N	Y	0	Y	N	N
73	Deoria	ICAR	2009	8.160	Y	Y	Y	N	Y	Y	N	Y	1	N	5	-	Y	N	Y	N	N	Y	N	N	Y	0	Y	N	Y
74	Hardoi-II	ICAR	2020	18.00	N	N	N	N	N	N	N	N	-	N	2	-	N	N	N	N	N	N	N	N	Y	0	N	N	N
G)	NGO KVKs																												
75	Sultanpur-I	NGO	1976	73.300	Y	Y	Y	N	Y	N	Y	N	2	N	7	2	Y	N	Y	N	N	Y	N	N	Y	2	Y	N	N
76	Etah	NGO	1992	45.500	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	1	Y	N	Y	N	N	Y	N	Y	Y	1	Y	N	N
77	Gonda-I	NGO	1989	21.300	Y	Y	Y	N	Y	N	Y	Y	2	N	9	1	Y	N	N	Y	N	Y	N	N	Y	1	Y	N	N
78	Chitrakoot	NGO	1992	19.650	Y	Y	Y	N	Y	Y	Y	N	3	Y	9	-	Y	N	N	Y	N	Y	N	N	Y	1	Y	Y	N
79	Pratapgarh	NGO	1999	20.110	Y	Y	Y	Y	Y	N	N	Y	3	Y	5	-	Y	N	N	N	N	Y	N	N	Y	2	Y	N	N
80	Unnao	NGO	1999	20.340	Y	Y	Y	N	Y	N	Y	N	2	N	8	-	Y	N	N	N	N	Y	N	N	Y	1	Y	N	N
81	Ghazipur-I	NGO	2002	25.200	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	-	Y	N	N	N	N	N	N	Y	Y	2	Y	N	N
82	Agra	NGO	2002	20.000	Y	Y	N	Y	Y	Y	Y	Y	2	N	3	-	N	N	Y	N	N	N	N	N	Y	1	Y	Y	N
83	Sitapur-I	NGO	2005	12.353	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	-	N	Y	Y	N	N	N	N	N	Y	1	Y	N	Y
84	Kaushambi	NGO	2006	16.500	Y	N	Y	N	Y	N	N	Y	2	Y	2	2	N	N	Y	N	N	N	N	Y	Y	0	Y	N	N
85	Sitapur-II	NGO	2011	21.050	Y	N	Y	N	N	N	N	N	2	N	3	-	N	N	Y	Y	N	N	N	N	Y	0	Y	Y	N
86	Gorakhpur-II	NGO	2016	20.056	Y	Y	N	N	N	Y	N	Y	2	N	1	3	N	N	N	N	Y	N	N	N	Y	0	Y	N	N
H)	Educational KVKs																												
87	Mathura	EDU	1984	21.000	Y	Y	Y	Y	Y	N	Y	Y	1	N	4	1	Y	N	Y	N	N	Y	N	N	Y	1	Y	N	N
88	Mirzapur	EDU	1984	20.000	Y	Y	Y	Y	Y	N	Y	Y	3	N	1	2	N	N	Y	N	N	N	N	Y	Y	1	N	N	N
89	Allahabad	EDU	1992	26.700	Y	N	Y	N	Y	N	Y	N	2	N	4	-	N	N	Y	N	N	N	N	N	Y	1	Y	N	N
	Total				68	59	59	42	67	15	44	50	104	4	240	61	26	1	26	3	11	23	0	4	87	70	81	7	7

SAC Meetings

S.No.	Name KVK & its category	Year of Establishment
ANDUAT, Ayodhya (25)		
1	Bahraich	-
2	Ballia	-
3	Basti	-
4	Mau	14.06.2024
5	Varanasi	26.04.2024
6	Siddharthnagar	-
7	Faizabad	-
8	Gorakhpur	03.05.2024
9	Maharajganj	-
10	Sonbhadra	-
11	Azamgarh	30.05.2024
12	Barabanki	05.07.2024
13	Balrampur	18.03.2024
14	Chandauli	25.04.2024
15	Jaunpur-I	-
16	SantKabir Nagar	-
17	Ambedkar Nagar	-
18	Amethi	-
19	Bahraich-II	-
20	Gonda-II	-
21	Sultanpur-II	19.12.2024
22	Jaunpur-II	15.03.2024
23	Ghazipur-II	27.11.2024
24	Shravasti	26.10.2024
25	Azamgarh-II	-
CSAUAT, Kanpur (15)		
26	Raebareli-I	-
27	Fatehpur	-
28	Aligarh	-
29	Kannauj	-
30	Etawah	-
31	Mainpuri	-
32	Kanpur Dehat	-
33	Firozabad	-
34	LakhimpurKheri-I	-
35	Farrukhabad	-
36	Hardoi-I	-

37	Mahamaya Nagar	-
38	Kasganj	-
39	Auraiya	-
40	Raebareilly-II	-
BUAT, Banda (7)		
41	Jhansi	-
42	Mahoba	-
43	Hamirpur	-
44	Jalaun	-
45	Lalitpur	-
46	Banda	-
47	Prayagraj-II (Allahabad-II)	-
SVBPUAT, Meerut (20)		
48	Bijnor	22.11.2024
49	Rampur	02.12.2024
50	Badaun-I	07.12.2024
51	Saharanpur	30.11.2024
52	Ghaziabad	27.11.2024
53	Sahajahanpur	23.11.2024
54	Meerut	-
55	Muzaffarnagar-I	11.12.2024
56	Pilibhit	-
57	Baghpat	26.11.2024
58	Moradabad-I	28.11.2024
59	Gautam Budha Nagar	25.11.2024
60	Bulandshahar	16.11.2024
61	Badaun-II	07.12.2024
62	Sambhal	03.12.2024
63	Shamli	21.11.2024
64	Amroha	-
65	Hapur	23.11.2024
66	Muzaffarnagar-II	12.11.2024
67	Moradabad-II	28.11.2024
ICAR KVKs (7)		
68	Bareilly	29.03.2024
69	Lucknow	-
70	Lakhimpur Kheri-II	-
71	Kushinagar	27.04.2024
72	Deoria	26.04.2024

73	Bhadohi (St. Ravidas Nagar)	16.03.2025
74	Hardoi-II	-
NGO KVKs (12)		
75	Sultanpur-I	14.11.2024
76	Etah	-
77	Agra	-
78	Gonda-I	-
79	Chitrakoot	-
80	Pratapgarh	-
81	Unnao	22.03.2024
82	Gazipur-I	-
83	Sitapur-I	-
84	Kaushambi	27.04.2024
85	Sitapur-II	22.03.2024
86	Gorakhpur-II	-
Educational KVKs (3)		
87	Mathura	24.02.2024
88	Mirzapur	-
89	Prayagraj-I (Allahabad)	-

Annex-VI

DETAIL ADDRESS LIST OF KVKs (UTTAR PRADESH)

ANDUA&T, Ayodhya (25 KVKs)			
1	Dr. Pramod Kumar Singh I/c Head KVK Krishi Vigyan Kendra, Crop Research Station, Near Kisan Degree College, Distt. Behraich- 271 801 (U.P.) Email: kvkbahraich@gmail.com Mobile: 8858859244 Phone & Fax: 05252-236650	8	Dr. S. K. Tomer Head KVK Krishi Gyan Kendra, Belipur, Distt. Gorakhpur – 273011 (U.P.) Email: kvkgorakhpur@gmail.com Mobile: 9415155518 Phone: 05521-244421
2	Dr. S.N. Singh Head KVK Krishi Vigyan Kendra, Banjariya Farm, PO.Katiya, Distt Basti-272302 (U.P.) kvkbasti@gmail.com 9450547719	9	Dr D.P. Singh Head KVK Krishi Vigyan Kendra, Basuli, (Siswa Bazar), Distt. Maharajganj-273153 (U.P.) Email: kvkmahrajganj2019@gmail.com, Kvk_mahrajganj@rediffmail.com Mobile: 7839325836
3	Dr. Sanjeet Kumar Head KVK Krishi Vigyan Kendra, Sohoan, P.O. Sohoan, Distt. Ballia-277504 (U.P.) Email: kvkballia@gmail.com Mobile: 8174006357	10	Dr. P.K. Singh, Head KVK Krishi Vigyan Kendra, Tissuhi, At Crop Research Centre, PO Marehan, Distt. Sonbhadra-231310 (U.P.) Email: kvksonbhadra@gmail.com Mobile: 9415450175
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