

वार्षिक प्रगति प्रतिवेदन ANNUAL PROGRESS REPORT

2023



भाकृअनुप - कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान (अटारी), जोन-3, कानपुर
ICAR-AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH
INSTITUTE (ATARI), ZONE-III, KANPUR



An ISO 9001:2015 Certified Institute

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EXECUTIVE SUMMARY

Training Programmes

KVKs organized 9512 training courses with the participation of 218767 farmers, farm women, rural youths and extension functionaries. The farmers and farm women were represented in a proportion of 75.90 % and 24.10 % respectively. In all 172702 farmers and farm women and 19602 rural youths were provided skill training in different enterprises. Similarly, 26463 extension personnel were also trained in different areas.

A total of 533 sponsored trainings with the participation of 27605 farmers and farm women and 1240 vocational trainings with participation of 8975 rural youths were organised.

Frontline Demonstrations

A total of 32680 frontline demonstrations were organized out of which on CFLD pulses (8959) & oilseeds (9024), cereals & millets (5209), other enterprises (3566), farm Implements (1658), livestock & fishery (1534), vegetables (1445), fodder (837), hybrid (270), commercial (80), spices (52) and fruits (46) were included. Under FLD other than pulses and oilseeds total area covered was 4998.36 ha. In case of FLD on livestock strains and other enterprises, total units covered was 3478 and 3279 units respectively.

Technology Assessment

Total 970 technologies were assessed and 5380 trials conducted under three categories namely, crop (3701), livestock (923) and other enterprises (756)

Extension Programmes

In all 50098 extension activities with 16.68 lakh beneficiaries, 25767 mass communication extension activities, 814872 mobile advisories through text and voice for 46.72 lakh farmers, 24560 soil samples covering 40064 farmers, 8620 technology week celebrations with 3.26 lakh beneficiaries, 17 trainings under rain water harvesting & micro irrigation system with 3268 beneficiaries have been reported.

Seed Production

KVKs of Uttar Pradesh produced 28898.59 q seed of cereals (16481.41 q), pulses -seed hub (6495.95 q), oilseeds (1288.19 q), commercial crops

(2637.91 q), fodder (1709.00 q), vegetables (219.51 q) and spices (66.62 q). Total value of Rs.1316.52 lakh was obtained by KVKs under seed production.

Planting Material Production

KVKs produced 86.29 lakh planting materials including vegetable seedlings (73.37 lakh), fruit saplings (1.21 lakh), ornamental (3.24 lakh), fodder (2.80 lakh), medicinal and aromatic (0.32 lakh), forestry (0.36 lakh) and paddy seedlings (5.00 lakh). Total value of Rs.47.60 lakh was obtained by KVKs under Planting material production.

Bio-Products

The KVKs of Uttar Pradesh produced 2915.92 quintal of bio-products which include vermi compost (2009.84 q) and NADEP compost (414.50 q). Besides, KVKs also produced 312.35 q bio pesticides, 11.50 q bio-fungicide and 22.53 q other bio-products. Total value of Rs.23.28 lakh was obtained by KVKs under Bio-products.

Livestock & Fingerling Production

KVKs of Uttar Pradesh produced 146.62 lakh livestock strains including 712 dairy animals including cows, buffaloes, calves, goat etc by 11 KVKs; poultry (8398) including broilers, layers, ducks etc by 13 KVKs; piglets (10.) and fisheries (146.53 lakh) by 4 and 43 KVKs respectively. Total value of Rs.37.80 lakh was obtained by KVKs under livestock strain.

HRD and Publications

A total of 22 publications including research papers (9), books (8), technical report (1) and newsletters (4) have been published by ICAR-ATARI, Kanpur. Also under HRD two trainings programmes were attended by ATARI staff. Under the events category 7 workshops and 101 meetings (virtual & physical) organised by ICAR-ATARI, Kanpur

KVKs also published a total of 3024 publications including books (63), training manual (158), book chapter (171), research papers (228), seminar papers (59), technical bulletins (307), technical reports (611), and others (1427). Under HRD programmes Directorate of Extension organised 17 programmes with the participation of 377 KVK scientists.



Women Empowerment in Agriculture

A range of courses (1003) related to women empowerment were organized with the participation of 20422 farm women. Value addition courses (177) were attended by highest number of farm women (3652), followed by Household food security by kitchen gardening and nutritional gardening courses (166) were attended by (3486) number of farm women, women and child care (104) attended by 1967 women participants, development of high nutrient efficiency diet courses (98) attended by 2019 women etc. The farm women also showed interest in courses like development of low cost diet, minimization of nutrient loss in processing, processing and cooking, women empowerment, drudgery reduction, storage loss minimization technique, rural craft, etc. were also conducted.

KVKs also conducted, technology demonstrations, trainings and various extension activities under NARI program. A total of 1809 nutrigardens were established with 2817 farm women were benefited under FLDs.

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 (67).

Staff Position

ICAR-ATARI, Kanpur have filled up 11 staff personnel out of total 20 vacancies. Post of RMP is filled. Out of 6 sanctioned positions in scientific cadre, 2 positions (1 Sr. Scientist and 1 Scientist) are filled up. One post of Principal Scientist, two of Sr. Scientist and one Scientist positions are lying vacant. Out of 9 positions in administrative cadre, 5 are filled up and 4 positions (AF&AO-1, LDC-1, PS-1, Steno-1) are lying vacant. Likewise, one Skilled Support Staff is filled and one 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 2022-23, an amount of Rs. 14730.16 lakh (99.83 %) was utilized/released against the allotted budget of Rs. 14755.78 lakh.

Projects and Special Programmes

This institute is handling different type of projects categorised into Network Research Projects (8), National Programme (7) and ICAR Flagship projects/programmes (6). Its technical achievements are given below –

1.	NICRA (National Innovations on Climate Resilient Agriculture)	Under different modules of NICRA total 18592 farmers were benefitted. In this project, total 5041 demonstrations were made under three modules namely <i>NRM</i> (459), <i>Crop Production</i> (3295) and <i>Livestock & fisheries</i> (883 demonstrations/2586 animals) by covering an area of 372.85 ha, 1190.51 & 101.25 respectively. Under <i>Capacity Building</i> module, total 187 training courses were conducted for 4882 farmers and under <i>Extension Activities</i> 217 programmes were organised by covering 13710 farmers.
2.	ARYA (Attracting Rural Youths in Agriculture)	(i) No. of entrepreneurial units established: 581 (mushroom production-195, Quality seed and Planting material 18, Poultry-137, Goat farming-136, Bee keeping-68, Vermicomposting-27); (ii) No. of Training programs organised: 42; (iii) No. of rural youth trained: 2096; (4) No. of youth established units: 413.
3.	IFS (Integrated Farming System)	IFS of different component combination were popularized through all the KVKs in Uttar Pradesh and there are 37 IFS units established spanning an area of 194.13 ha and 19 unit during 2023. Under IFS total 53 demonstrations and 90 trainings were conducted for 384 and 1744 farmers benefited respectively

4.	TSP (Tribal Sub Plan)/ KSHAMTA (Knowledge system & Home based Agricultural Management in Tribal Areas)	(i) Farmers Training (Courses: 95, Participants: 3119), (ii) Women Farmer Training (Courses: 29, Participants: 914), (iii) Rural youths (Courses: 11, Participants: 295), (iv) Extension Personnel (Courses: 3, participants: 60), (v) Involvement of farmers in (OFT: 66, FLD: 1968, mobile advisories: 916 farmers), (vi) Participation in extension activities: 2075, (vii) Production of seed: 2188 q, (viii) Production of planting materials: 0.12 lakh, (ix) Production of Livestock strains: 25 lakh, Production of fingerlings (No. in lakh) 0.8 lakh, Soil testing: 330 A total of 21 villages were adopted under KSHAMTA programme. Also 4424 farmers are benefitted by providing 71 training programmes and 436 demonstrations under this programme.
5.	SCSP (Scheduled Caste Sub Plan)	(i) Training: A) Farmers 447 courses with 11404 beneficiaries B) Extension Functionaries: 36 courses with 720 beneficiaries (ii) On farm trails: 380 (iii) Frontline demonstrations: 5452 (iv) Mobile advisories to the farmers: 9624 (v) Participants in extension activities: 94049 (vi) Production of seed: 254.82 q (vii) Production of planting material: 0.35 lakh (viii) Testing of Soil, water, plant, manures samples: 2337
6.	Farmers FIRST Programme	During the year 2023 all the seven institute together conducted 3822 demonstrations on 2788 livestock & poultry by coverings 3685 families in the state of Uttar Pradesh. Total 168 extension activities were also conducted which benefitted 2735 Farmers.
7.	CRM (Crop Residue Management)	(i) Total 146 awareness camps conducted and 16444 farmers were benefitted (ii) Total 52 training programmes organised and 1342 farmers were benefitted (iii) Total 4072 demonstrations conducted covering an area of 2257.80 ha (iv) Schools & colleges students mobilized through essay completion, painting, debate etc and 92 activities conducted by participation of 12702 students. (v) Total 27 Kisan Melas organised and 16764 farmers are benefitted. (vi) Total 784 Column / Articles published in newspaper and magazines (vii) 218 Hording fixed at mandi/ road side/ market/ schools/ petrol pump/ panchayat etc, 215 Poster/ Banner placed at different location/ buses etc. (viii) Total 137522 publicity material such as leaflets/ pamphlets etc. distributed (ix) Total 125 made awareness through TV & Radio (x) 51 exposure visit conducted by benefitting 2071 farmers (xii) total 41 field days organised by participating 1748 farmers (xiii) Total 123 advertisement published in Print media. (xv) Award given for village/ Gram Panchayat for achieving zero stubble burning.
8.	DAMU (Distt. Agrometeorology Unit)	(i) Number of Ago. Advisory services (AAS): 2840 (ii) Number of Farmer Awareness Programs (FAP) : 58 (iii) Number of Trainings : 28 (iv) Number of Bulletins : 1159 (v) Number of Whatsapp Messages: 7567 (vi) Diagnostic Field visit : 93 (vii) Radio & TV Talk: 23 (viii) Number of Articles/News published in newspapers: 211
9.	Pulses Seed Hub Programme	During 2023 total 6495.95 quintal pulse seeds (black gram 432.00 q, green gram 1043.95 q, chickpea 1320.00 q, field pea 1580.00 q, lentil 1260.00 q and Pigeon pea 860.00) are produced by 8 seed hubs.
10.	Skill Training Programme (ASCI)	Under ASCI programme KVKs organised total 5 training programmes benefitting 120 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.
11.	NARI (Nutrition- sensitive Agricultural Resources and Innovation)	(i) Trainings (courses: 354, Participants: 8398) (ii) Extension programmes (Number 330, Participants: 18269) (iii) Nutritional Garden units established: 1809 and 2817 farmer benefitted (iv) Bio-fortified crops: 137 and 1633 farmers benefitted (v) Value addition: 157 and 2116 farmers were benefitted.
12.	Natural farming	(i) No. of awareness programme: 252 with 22746 participants (ii) No. of training programmes organized: 52 with 2084 participants (iii) No. of demonstrations organized at farms of KVKs: 416 with 868 farmers.



13.	CSISA (Cereal Systems Initiative for South Asia)	Under CSISA 250 farmers benefited through 46 activity conducted on 4 different programme which included machine transplantation of paddy & DSR (20 & 20) as well as ZT wheat sowing, Training (4 & 110) and Kisan Gosthi (2 & 100).
14.	MGMG (Mera Gaon Mera Gaurav)	Total no. of groups or team formed-62, Number of Scientists involved-275, Number of village's covered-346, Number of field activities conducted 1295, Number of messages /Advisory sent-502, Number of Farmers benefitted -27000.
15.	RHS (Rainwater Harvesting Structures)	Under RHS, Training programmes (28), demonstrations (9), planting materials produced (76500), visit by farmers (18561), visit by officials (141).
16.	Drone Project	(i) Area (ha) and its demonstrations by kisan drone : 1500 ha, (ii) No. of farmers participated : 6000.
17.	SBA (Swachha Bharat Abhiyaan)	Total 3710 programmes organized and 40288 persons were participated in different programmes like toilet maintenance, road-drain cleaning, Garbage disposal, Door to door awareness, Awareness campaign, Nookkad Drama, School Drama, School rally, Writing paining slogans, Composting and others

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, Pratagarh				
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			
	RanvirRananjay Degree College Association, Sultanpur				
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	
7.	Faizabad	Faizabad	
8.	Gorakhpur	Gorakhpur-I	Gorakhpur-II
9.	Maharajganj	Maharajganj	
10.	Sonbhadra	Sonbhadra	
11.	Azamgarh	Azamgarh-I	
12.	Barabanki	Barabanki	Azamgarh-II
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	Gonda-II
21.	Ghazipur	Ghazipur-I	
			Sultanpur-II
			Ghazipur-II



22.	Shravasti	Shravasti	Raebareli-II
23.	Raebareli	Raebareli-I	
24.	Fatehpur	Fatehpur	
25.	Aligarh	Aligarh	
26.	Kannauj	Kannauj	
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	Hardoi-II
34.	Mahamaya Nagar	Mahamaya Nagar	
35.	Kasganj	Kasganj	
36.	Auraiya	Auraiya	
37.	Jhansi	Jhansi	
38.	Mahoba	Mahoba	
39.	Hamirpur	Hamirpur	
40.	Jalaun	Jalaun	
41.	Lalitpur	Lalitpur	
42.	Banda	Banda	
43.	Prayagraj	Prayagraj-I	Prayagraj-II
44.	Bijnor	Bijnor	
45.	Rampur	Rampur	Badaun-II
46.	Badaun	Badaun-I	
47.	Saharanpur	Saharanpur	
48.	Ghaziabad	Ghaziabad	
49.	Sahajahanpur	Sahajahanpur	
50.	Meerut	Meerut	
51.	Muzaffarnagar	Muzaffarnagar-I	Muzaffarnagar-II
52.	Pilibhit	Pilibhit	
53.	Baghpat	Baghpat	Moradabad-II
54.	Moradabad	Moradabad-I	
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	Sitapur-II
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	
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.

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, Chazipur, Budaun, Moradabad, Muzaffarnagar, Lakhimpur Kheri, Hardoi, Sitapur, Gorakhpur, Prayagraj, Raebareli



1.4 Achievements at A Glance during 2023

1.4.1 Achievements of Technical Programmes at a Glance

1.	Training programmes	Courses	Participants
	Farmers & farm women	7465	172702
	Rural Youths	958	19602
	Extension Functionaries	1089	26463
	Total	9512	218767
	Sponsored Training programmes	533	27605
	Vocational Training programmes	1240	8975
2.	Frontline Demonstrations	Farmers	Area (ha)/Units (No.)
	Pulses	8959	3130.11
	Oilseeds	9024	3283.00
	Cereals & millets	5209	3848.28
	Other Enterprises	3566	3279 units
	Farm Implements	1658	709.66
	Livestock & fishery	1534	3478 units
	Vegetables	1445	282.68
	Fodder	837	92.05
	Hybrid crops	270	26.64
	Commercial	80	24.00
	Spices	52	4.00
	Fruits	46	11.05
	Grand Total	32680	11411.47 ha/6757 units
3.	Technology Assessment	Technologies	Trials
	Crops	761	3701
	Livestock	100	923
	Other Enterprises	109	756
	Total	970	5380
4.	Extension Programmes	Number	Beneficiaries
	Extension activities	46228	6454145
	Other extension programs(mass comm.)	27206	mass
	Mobile advisories	785814	3268351
	Soil samples	36114	45962
	Technology week celebrations	13320	377683
	Trainings and Demonstrations under Rain Water Harvesting & Micro Irrigation System	37	18561
	Total	908719	3710557
5.	Seed Production (quintal)	24767.77	24749
6.	Planting materials (lakh)	86.29	40450
7.	Bio-Production (quintal)	2915.92	8044
8.	Livestock strains	Quantity (lakh)	Beneficiaries
	Livestock	0.09	908
	Fisheries	146.53	999
	Total	146.62	1907
9.	Publications (No.)	By KVKs	By ATARI
		3024	22
10.	HRD/meetings Programmes	By DE	By ATARI
	No. of Programmes/Participants	17/377	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: 4637 covering 1664.61 ha area. Training courses: 187 and 4882 farmers benefitted Extension activities: 217 and 13710 farmers benefitted
2.	ARYA (Attracting & Retaining of Youth in Agriculture) (10 KVKs)	Training programmes: 42 courses with 2096 participants Entrepreneurial Units established: 413
3.	IFS (Integrated Farming System) (13 KVKs)	Total IFS units established: 37 Total 53 demonstrations and 90 trainings were conducted for 384 and 1744 farmers, respectively
4.	STC (Scheduled Tribe Component)/KSHAMTA (Knowledge Systems and Homestead Agricultural Management in Tribal Areas) (8 KVKs)	Training programmes: 138 courses with 4388 participants OFT: 66, FLD : 1968 Mobile agro – advisories provided: 916 Participation in extension activities: 2075 Seed Production: 2188.00 q, Planting material production: 0.12 lakh, livestock/fingerlings: 25.08 lakh Soil Testing: 330
5.	SCSP (Scheduled Caste Sub Plan) (10 KVKs)	Training programmes: 483courses with 12124 participants On farm Trials: 380, FLD : 5452 Mobile agro – advisories provided: 9624 Participation in extension activities: 94049 Seed production: 254.82 q, planting material production: 0.35 lakh, Soil Testing: 2337
6.	Farmer FIRST Programme (7 ICAR institutes)	Total demonstrations: 3822 covering 3685 families Total 168 extension activities by benefitting 2735 Farmers
7.	CRM (Crop Residue Management) (23 KVKs)	Awareness camp: 146 & 16444 farmers benefitted Training programmes: 52 with 1342 participants Demonstrations: 4072 covering 2257.80 ha Kisan melas: 27 with 16764 farmers benefitted Other activities (posters, banners, paintings etc): 2539 Publicity material leaflets/ pamphlets etc distributed: 137522 Awareness through TV & Radio: 125 51 exposure visit conducted by benefitting 2071 farmers 41 field days organised by participating 1748 farmers Total 123 advertisement published in Print media
8.	DAMU (Distt. Agrometeorology Unit) (20 KVKs)	Ago. Advisory services : 2840 Total 28 training programmes with 58 awareness programme Total 1159 bulletins, 211 articles, 7567 WhatsApp messages and 93 field visits made
9.	Pulses Seed Hub (8 KVKs)	Total pulses seed production: 5427.11 (black gram 486.30 q, green gram 581.56 q, chickpea 2749.70 q, field pea 813.11q and lentil 580.46 q)



10.	ASCI (Agriculture Skill Council of India)	Training courses organised: 5 courses with 120 participants (each course has 200 hour duration)
11.	Aspirational Districts Scheme (8 KVKs)	Trainings: 183 for 5353 farmers and 419 office staff Seed & Planting material distributed: 1093.10 q, 108410 Under Animal husbandry & fish distribution programme: Vaccination: 22, Medicine for control of parasite: 70 No. of farmers and other involved: 80
12.	NARI (Nutrition- Sensitive Agricultural Resources and Innovation) (89 KVKs)	Trainings (courses: 354, Participants: 8398) Extension programmes (Number 330, Participants: 18269) Nutritional Garden units established: 1809 and 2817 farmer benefitted Bio-fortified crops: 137 and 1633 farmers benefitted Value addition: 157 and 2116 farmers were benefitted.
13.	Natural farming (52 KVKs)	No. of awareness / training programmes organized: 52 No. of Participants: 2084 No. of demonstrations organized at farms of KVKs: 416 No. of farmers visited demonstration plots: 22746
14.	CSISA project (Cereal System Initiative for South Asia)	Plantation paddy up pulling: 20 No and 20 farmers benefitted DSR: 20 No and 20 farmers benefitted Trainings: 4 courses with 110 beneficiaries
15.	MGMG (Mera Gaon Mera Gaurav) (13 ICAR institutes & DU)	Groups or team formed: 62 Scientists involved: 275 Village's covered: 346 Field activities conducted : 295 Messages /Advisory send: 502 Farmers benefitted: 2700
16.	RWHS (Rainwater Harvesting Structures) (35 KVKs)	Training programmes : 28 Demonstrations: 9 Visits: 18561 farmers and 141 officials.
17.	SBA (Swachha Bharat Abhiyaan) (All 89 KVKs)	Programmes organised: 3710 with 40288 participants
18.	Agril. Drone (10 KVKs, 4 SAUs and 11 ICAR institutes)	Total 32 drones have been sanctioned Area covered for demonstrations: 1500 ha Farmers participation: 6000
19.	CFLD (Cluster frontline demonstrations) on Pulses & Oilseeds (89 KVKs)	Total 3130.11 ha area and 8959 demonstrations were covered under CFLD on Pulses Total 3283.00 ha area and 9024 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 IGFR, 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.

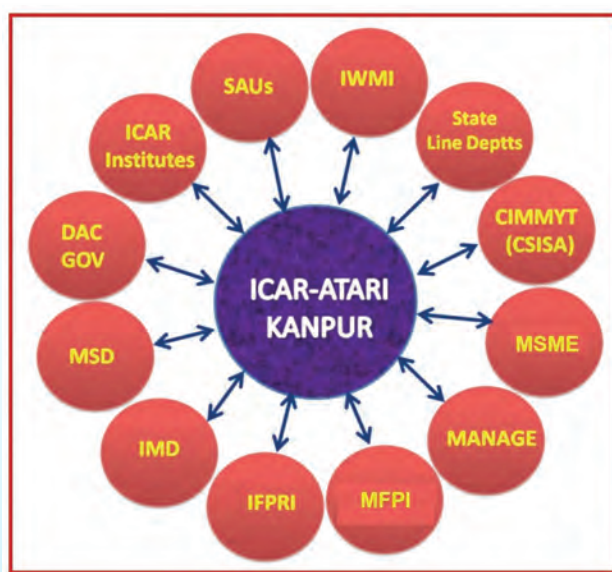


Fig-1 : Linkages of ICAR-ATARI, Kanpur with different organizations/Institutes

**Chapter-2****TRAINING PROGRAMMES**

KVKs organized 9512 training courses with the participation of 218767 farmers, farm women, rural youths and extension functionaries. The farmers and farm women were represented in a proportion of 75.90 % and 24.10 % respectively. In all 172702 farmers and farm women and 19602 rural youths were provided skill training in different enterprises. Similarly, 26463 extension personnel were also trained in different areas.

A total of 533 sponsored trainings with the participation of 27605 farmers and farm women and 1240 vocational trainings with participation of 8975 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	7465	131080	41622	172702
Rural Youths	958	14554	5048	19602
Extension Functionaries	1089	20749	5714	26463
Total	9512	166383	52384	218767

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

Type of training	Courses	Male	Female	Total
Sponsored Trainings	533	23169	4436	27605
Vocational Trainings	1240	6286	2689	8975
Total	1773	29455	7125	36580

2.1 Farmers and Farm Women

Under trainings for farmers and farm women category, total of 7465 courses were conducted by KVKs of the Uttar Pradesh with the participation of 172702 farmers and farm women (Table 2.4). Maximum courses (1596) and participants (37873) were related to crop production. The other areas of trainings were horticulture (1316 courses and 29903 participants); livestock production management (907 courses and 21201 participants); women empowerment (1003 courses and 22430 participants); soil health and fertility management (661 courses and 16395 participants); agricultural engineering (249 courses and 6206 participants); plant protection (894 courses and 20435 participants); fisheries (124 courses and 3022 participants); production of input at site (274 courses and 6682 participants); capacity building & group dynamics (334 courses and 6708 participants); agro forestry (107 courses and 1847 participants).

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	3263	43800	10587	54387	14008	5939	19947	57808	16526	74334
	OFF	4187	55063	15832	70895	18209	9264	27473	73272	25096	98368
	Total	7465	98863	26419	1E + 05	32217	15203	47420	131080	41622	172702
Rural Youths	ON	768	8681	2241	10922	2814	1491	4305	11495	3732	15227
	OFF	190	2263	694	2957	796	622	1418	3059	1316	4375
	Total	958	10944	2935	13879	3610	2113	5723	14554	5048	19602
Extension Functionaries	ON	629	9230	2650	11880	2325	1013	3338	11555	3663	15218
	OFF	460	7598	1553	9151	1596	498	2094	9194	2051	11245
	Total	1089	16828	4203	21031	3921	1511	5432	20749	5714	26463
Grand Total	ON	4660	61711	15478	77189	19147	8443	27590	80858	23921	104779
	OFF	4837	64924	18079	83003	20601	10384	30985	85525	28463	113988
	Total	9497	126635	33557	160192	39748	18827	58575	166383	52384	218767

Table-2.4 Training of farmers and farm women

Area of training	Courses	Male	Female	Total
Crop Production	1596	33107	4766	37873
Horticulture	1316	25671	4232	29903
Soil Health & Fertility Management	661	14077	2318	16395
Livestock Production & Management	907	17894	3307	21201
Home Science/ Women empowerment	1003	2008	20422	22430
Agril. Engineering	249	5567	639	6206
Plant Protection	894	17914	2521	20435
Fisheries	124	2399	623	3022
Production of Input at site	274	5444	1238	6682
Capacity Building & Group Dynamics	334	5446	1262	6708
Agro forestry	107	1553	294	1847
Total	7465	131080	41622	172702

2.1.1 Crop Production

With respect to crop production, 1596 training courses were organized in Uttar Pradesh with the participation of 37873 farmers and farm women. Integrated crop management related 300 courses were organized in which 7274 farmers and farm women participated; followed by 189 courses on weed management (4376 participants), 196 on seed production (4180 participants), 125 courses on Integrated nutrient Management (3107 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.

2.1.2 Horticulture

Training on production technologies of vegetables, fruits, ornamental plants, plantation crops, tuber crops, spices and medicinal plants were organized. 640 courses on vegetables involving 14467 and 380 courses on fruit with the participation of 8820 were held. Similarly, in case of ornamental plants, organization of 83 courses with participation of 1849 persons was ensured. In the area of plantation crops, tuber crops, spices, medicinal & other crops 30, 52, 60 and 71 courses were organized with participation of 745, 1200, 1286 and 1536 farmers and farm women.

Table 2.5: Training programmes related to crop production

Area of training	Courses	Male	Female	Total
Weed Management	189	3828	548	4376
RCT	131	2570	342	2912
Cropping Systems	117	2697	323	3020
Crop Diversification	87	1817	183	2000
Integrated Farming	80	1570	225	1795
Micro irrigation/irrigation	48	958	197	1155
Seed production	196	3575	605	4180
Nursery management	83	1875	266	2141
Integrated Crop Management	300	6403	871	7274
Soil & water conservation	56	1095	154	1249
Integrated nutrient Management	125	2788	319	3107
Production of organic inputs	63	1361	211	1572
Others	121	2570	522	3092
Total	1596	33107	4766	37873


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	213	4315	639	4954
Off-season vegetables	81	1590	303	1893
Nursery raising	142	2561	512	3073
Exotic vegetables	29	533	137	670
Export potential vegetables	11	238	72	310
Grading and standardization	35	700	119	819
Protective cultivation	68	1224	232	1456
Others	61	1055	237	1292
Total (a)	640	12216	2251	14467
b) Fruits				
Training and Pruning	38	739	143	882
Layout and Management of Orchards	86	1724	239	1963
Cultivation of Fruit	77	1552	299	1851
Management of young plants/orchards	59	1105	190	1295
Rejuvenation of old orchards	55	1052	212	1264
Export potential fruits	4	87	12	99
Micro irrigation systems of orchards	22	448	75	523
Plant propagation techniques	22	479	90	569
Others	17	341	33	374
Total (b)	380	7527	1293	8820
c) Ornamental Plants				
Nursery Management	41	817	110	927
Management of potted plants	6	128	14	142
Export potential of ornamental plants	6	120	25	145
Propagation techniques of ornamental Plants	13	261	26	287
Others	17	323	25	348
Total (c)	83	1649	200	1849
d) Plantation crops				
Production and Management technology	22	452	84	536
Processing and value addition	8	163	46	209
Others	0	0	0	0
Total (d)	30	615	130	745
e) Tuber crops				
Production and Management technology	47	959	126	1085
Processing and value addition	5	101	14	115
Others	0	0	0	0
Total (e)	52	1060	140	1200
f) Spices				
Production and Management technology	44	825	112	937
Processing and value addition	8	146	29	175
Others	8	169	5	174
Total (f)	60	1140	146	1286
g) Medicinal and Aromatic Plants				
Nursery management	25	498	35	533
Production and management technology	22	493	26	519
Post harvest technology & value addition	15	293	11	304
Others	9	180	0	180
Total (g)	71	1464	72	1536
GT (a-g)	1316	25671	4232	29903

2.1.3 Soil Health and Fertility Management

Total of 661 courses were attended by 16395 participants. The courses in the area of soil fertility management (119), integrated nutrient management (130), soil & water testing (74), production & use of organic inputs (81), balanced use of fertilizer (55) and micro-nutrients deficiency in crops (39), nutrient use efficiency (31), etc. were organized with the objectives to create awareness, knowledge and skill among farmers to address various issues. These trainings involved 2937, 3252, 1759, 1903, 1466, 818, 939 and 818 participants respectively were benefitted.

Table 2.7: Training on soil health and fertility management

Area of training	Courses	Male	Female	Total
Soil fertility management	119	2540	397	2937
Integrated water management	39	800	149	949
Integrated nutrient management	130	2855	397	3252
Production and use of organic inputs	81	1616	287	1903
Management of problematic soils	41	827	140	967
Micro nutrient deficiency in crops	39	808	131	939
Nutrient use efficiency	31	693	125	818
Balance use of fertilizer	55	1259	207	1466
Soil & water testing	74	1508	251	1759
others	52	1171	234	1405
Total	661	14077	2318	16395

2.1.4 Livestock Production Management

All together 907 courses were organized with the participation of 21201 participants. The courses related to disease management (202) were organized

with the participation of 4769 cattle owners. Dairy management (226) was second preferred programme attended by 5243 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	226	4425	818	5243
Poultry Management	76	1461	402	1863
Piggery Management	21	463	76	539
Rabbit Management	8	125	24	149
Animal Nutrition Management	126	2429	531	2960
Disease Management	202	4189	580	4769
Feed & fodder technology	149	2920	560	3480
Production of quality animal products	37	731	162	893
Others	62	1151	154	1305
Total	907	17894	3307	21201

2.1.5 Women Empowerment

A range of courses (1003) related to women empowerment were organized with the participation of 22430 farm women. Value addition (177) attended by highest of 4070 participants followed by Household food security by kitchen gardening courses (166) were attended by farm women (3916), followed by courses on, women and child care (104) attended by 2021 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	166	430	3486	3916
Design & development of low/minimum cost diet	69	215	1389	1604
Development of high nutrient efficiency diet	98	123	2019	2142
Minimization of nutrient loss in processing of fruits	64	151	1268	1419
Processing & cooking of cereals and pulses	59	134	1107	1241
Gender mainstreaming through SHGs	24	74	493	567
Storage loss minimization techniques	53	147	1117	1264
Value addition in fruits	177	418	3652	4070
Women empowerment through skill development	56	112	1046	1158
Location specific drudgery reduction technologies	53	39	1179	1218
Rural crafts	28	14	621	635
Women and child care	104	54	1967	2021
Others	52	97	1078	1175
Total	1003	2008	20422	22430



2.1.6 Agricultural Engineering

Total of 249 courses in various aspects related to farm machinery, implements and its maintenance, post harvest and value addition were organized by KVKs, benefiting 6206 farmers and farm women. Maximum courses on repair & maintenance of farm machinery & implements (75) were organized benefiting 2211 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	71	1468	107	1575
Installation and maintenance of micro irrigation systems	29	578	89	667
Use of plastics as mulch in farming practices	12	227	48	275
Manufacturing of small tools & implements	7	161	16	177
Repair & maintenance of farm machinery & implements	75	2026	185	2211
Small scale processing & value addition	10	167	39	206
Post harvest technology	13	274	60	334
Others	32	666	95	761
Total	249	5567	639	6206

2.1.7 Plant Protection

Under Plant Protection total 894 courses were organized with the participation of 20435 persons. The highlights of these programmes and others each course were on IPM (386), IDM (263), bio control of pests and diseases (118), production of bio control agents & bio pesticides (49).

Table-2.11: Training on plant protection

Areas of training	Courses	Male	Female	Total
Integrated Pest Management	386	7775	1102	8877
Integrated Disease Management	263	5263	723	5986
Bio-control of pests and diseases	118	2335	312	2647
Production of bio control agents & bio pesticides	49	1070	129	1199
Others	78	1471	255	1726
Total	894	17914	2521	20435

2.1.8 Fish Production

The courses on integrated fish farming (30) and composite fish culture (47) were mainly organized with the participation of 774 and 1084 persons respectively. Overall 124 courses attracted participation of 3022 persons.

Table-2.12: Training on fish production

Areas of training	Courses	Male	Female	Total
Integrated fish farming	30	684	90	774
Carp breeding and hatchery management	13	266	41	307
Carp fry and fingerling rearing	8	160	51	211
Composite fish culture	47	854	230	1084
Hatchery management and culture of freshwater prawn	3	57	8	65
Breeding and culture of ornamental fishes	4	56	53	109
Portable plastic carp hatchery	1	30	12	42
Edible oyster farming	2	48	13	61
Fish processing and value addition	6	40	102	142
Others	10	204	23	227
Total	124	2399	623	3022

2.1.9 Production of inputs at site

Total 274 courses on this theme attracted participation of 6682 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	79	1514	143	1657
Planting material production	24	522	72	594
Bio-agents production	7	140	21	161
Bio-pesticides production	11	222	25	247
Bio-fertilizer production	10	199	41	240
Vermi-compost production	33	706	224	930
Organic manures production	23	520	78	598
Production of fry and fingerlings	1	14	6	20
Production of Bee-colonies and wax sheets	4	78	24	102

Small tools and implements	2	53	27	80
Production of livestock feed and fodder	13	261	66	327
Production of Fish feed	2	48	8	56
Mushroom Production	30	501	245	746
Apiculture	14	263	221	484
Others	21	403	37	440
Total	274	5444	1238	6682

2.1.10 Capacity Building and Group Dynamics

334 courses were organized benefiting 6708 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	54	849	234	1083
Group dynamics	44	726	146	872
Formation and Management of SHGs	85	1184	476	1660
Mobilization of social capital	33	646	118	764
Entrepreneurial development of farmers/youths	66	1156	189	1345
WTO and IPR issues	9	150	14	164
Others	43	735	85	820
Total	334	5446	1262	6708

Table-2.16 Training for Rural youth

Areas of training	Courses	Male	Female	Total
Nursery Management of Horticulture crops	60	1067	268	1335
Training and pruning of orchards	20	371	66	437
Protected cultivation of vegetable crops	40	706	106	812
Commercial fruit production	13	199	53	252
Integrated farming	37	647	96	743
Seed production	101	1705	336	2041
Production of organic inputs	50	837	164	1001
Planting material production	16	297	59	356
Vermi-culture	32	584	139	723
Mushroom Production	92	1654	471	2125
Bee-keeping	58	988	179	1167
Sericulture	3	54	11	65
Repair and maintenance of farm machinery and implements	22	378	42	420

2.1.11 Agro-forestry

In this area, 107 courses were organized benefiting 1847 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	49	719	94	813
Nursery management	25	344	71	415
Integrated Farming Systems	20	308	93	401
Others	13	182	36	218
Total	107	1553	294	1847

2.2 Training of Rural Youth

Total of 958 courses involving 19602 persons were conducted. The highest participation was attracted towards the programmes like seed production (101), mushroom production (92), value addition (66), training and pruning of orchards (20), nursery management of horticultural crops (60), 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.



Value addition	66	320	807	1127
Small scale processing	15	72	152	224
Post Harvest Technology	13	123	53	176
Tailoring and Stitching	22	0	395	395
Rural Crafts	24	46	392	438
Production of quality animal products	9	110	109	219
Dairying	52	860	144	1004
Sheep and goat rearing	68	1217	287	1504
Piggery	3	87	3	90
Rabbit farming	5	52	4	56
Poultry production	42	670	144	814
Composite fish culture	9	180	34	214
Pearl culture	4	58	0	58
Cold water fisheries	1	20	0	20
Fish harvest and processing technology	6	96	19	115
Fry and fingerling rearing	5	102	8	110
Other	70	1054	507	1561
TOTAL	958	14554	5048	19602

2.3 Training of Extension Personnel

Total of 1089 courses involving 26463 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 (184), integrated pest management (155), INM (95), production of organic inputs (63), livestock feed & fodder (65), women & child care (75) 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	184	4225	386	4611
Integrated Pest Management	155	3615	267	3882
Integrated Nutrient management	95	2059	150	2209
Rejuvenation of old orchards	30	656	68	724
Protected cultivation technology	59	1331	145	1476
Production and use of organic inputs	63	1427	142	1569
Care & maintenance of farm machinery & implements	27	576	49	625
Gender mainstreaming through SHGs	15	153	136	289
Formation and Management of SHGs	19	307	110	417
Women and Child care	75	112	1546	1658
Low cost and nutrient efficient diet designing	39	98	717	815
Group Dynamics and farmers organization	12	275	19	294
Information networking among farmers	4	72	3	75
Capacity building for ICT application	26	578	53	631
Management in farm animals	61	1268	183	1451
Livestock feed and fodder production	65	1269	182	1451
Household food security	33	128	551	679
Other	127	2600	1007	3607
Total	1089	20749	5714	26463

2.4 Sponsored Training Programmes

Under sponsored training programmes, total

533 courses were organised by involving 27605 participants. Details are shown in Table 2.18.

Table-2.18: Sponsored Training Programmes organised

Areas of training	Courses	Male	Female	Total
Crop production, management & Value addition				
Increasing production and productivity of crops	139	7589	1283	8872
Commercial production of vegetables	70	3273	505	3778
Fruit Plants	25	1094	122	1216
Ornamental plants	3	85	10	95
Spices crops	3	107	6	1311
Soil health and fertility management	53	2927	394	3321
Production of Inputs at site	9	409	82	491
Methods of protective cultivation	11	381	79	3812
Others	26	263	40	303
Total	339	16128	2521	18649
Post harvest technology and value addition				
Processing and value addition	28	937	476	1413
Others	6	270	70	340
Total	34	1207	546	1753
Farm machinery				
Farm machinery, tools and implements	11	474	43	517
Others	9	254	22	276
Total	20	728	65	793
Livestock and fisheries				
Livestock production and management	28	1150	275	1425
Animal Nutrition Management	19	1091	172	1263
Animal Disease Management	11	532	67	2688
Fisheries Nutrition	2	106	12	118
Fishery Management	12	328	44	372
Others	3	149	27	490
Total	75	3356	597	3953
Home Science				
Household nutritional security	7	85	179	264
Economic empowerment of women	6	0	232	232
Drudgery reduction of women	1	0	30	496
Others	1	17	0	17
Total	15	102	441	543
Agricultural Extension				
Capacity Building and Group Dynamics	33	1089	184	1273
Others	17	559	82	641
Total	50	1648	266	1914
Grand Total	533	23169	4436	27605



2.5 Vocational Training Programmes

Under vocational training programmes, total

1240 courses were organised by involving 8975 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	6	122	16	138
Commercial fruit production	4	88	7	95
Commercial vegetable production	39	216	83	299
Integrated crop management	13	292	24	316
Organic farming	20	391	56	447
Others	14	213	51	264
Total	96	1322	237	1559
Post harvest technology and value addition				
Value addition	17	256	159	415
Others	6	45	80	125
Total	23	301	239	540
Livestock and fisheries				
Dairy farming	76	609	145	754
Composite fish culture	59	157	74	231
Sheep and goat rearing	431	402	576	978
Piggery	15	103	30	133
Poultry farming	78	306	137	443
Others	97	95	125	220
Total	756	1672	1087	2759
Income generation activities				
Vermicomposting	21	386	90	476
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	3	55	16	71
Repair and maintenance of farm machinery and implements	3	86	4	90
Rural Crafts	8	150	35	185
Seed production	1	21	4	25
Sericulture	6	38	102	140
Mushroom cultivation	25	477	90	567
Nursery, grafting etc.	3	63	7	70
Tailoring, stitching, embroidery, dying etc.	37	750	119	869
Agril. para-workers, para-vet training	16	210	75	285
Others	5	32	197	229
Total	3	43	2	45
	188	128	313	441
Total	319	2439	1054	3493
Agricultural Extension				
Capacity building and group dynamics				
Others	44	535	65	600
	2	17	7	24
Total	46	552	72	624
Grand Total	1240	6286	2689	8975

CFLD on Pulse Crops



CFLD on black gram: KVK Jaunpur



CFLD on Kharif green gram: KVK Pratapgarh



CFLD on chick pea: KVK Mathura



CFLD on field pea: KVK Sitapur I



CFLD on pigeonpea: KVK Raebareilly



CFLD on lentil: KVK Baharaich I



CFLD on green gram: KVK Fatehpur



Field Visit on Pigeon pea- KVK Firozabad

CFLD on Pulse Crops



CFLD on black gram: KVK Muzaffarnagar II



Field day of chickpea: KVK Hamirpur



Field day of lentil: KVK Badaun



CFLD on black gram: KVK Sitapur I



CFLD on pigeon pea: KVK Etah



Field day of field pea: KVK Hamirpur



Farmers received seed of pigeonpea under CFLD pulses at KVK Varanasi



Field Visit on lentil: KVK Baharaich I

CFLD on Oilseed Crops



CFLD on Mustard: KVK Firozabad



CFLD on Mastard: KVK Shravasti



CFLD on Sesamum: KVK Sultanpur



CFLD on Mustard: KVK Bareilly



CFLD on Musatard: KVK Banda



CFLD on Sesamum: KVK Sitapur I



CFLD on Groundnut: KVK Sitapur I



CFLD on Mastard: KVK Mathura

CFLD on Oilseed Crops



CFLD Mustard: KVK Sitapur I



CFLD on Sunflower: KVK Pratapgarh



Field days on Mustard: KVK Chitrakoot



CFLD on Mustard: KVK Pratapgarh



CFLD on Mustard: KVK Bijour I



CFLD on Mustard: KVK Muzaffarnagar-I



Major inputs to be demonstrated in kharif groundnut under CFLDs oilseed: KVK Mahoba



CFLD on Mustard: KVK Sultanpur II

FLD other than Oilseed & Pulses



FLD on Paddy: KVK Bahraich I



FLD on sorghum: KVK Etah



FLD on Brinjal: KVK Badaun I



FLD on bitter guard: KVK Baghpat



FLD pearl millet: KVK Sitapur I



FLD on Broccoli: KVK Lucknow



FLD on kitchen Garden: KVK Baghpat



FLD on fodder sorghum: KVK Lucknow

FLD other than Oilseed & Pulses



FLD on wheat: KVK Unnao



FLD on wheat: KVK Mathura



FLD on Tomato: KVK Lucknow



FLD on Poultry: KVK Bareilly



FLD on Kitchen Garden: KVK Hamirpur



FLD on Sugarcane bud chipper: KVK Saharanpur



FLD on Tomato: KVK Maharajganj



FLD on wheat: KVK Bijnour

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 970 technologies were assessed and 5380 trials conducted under three categories namely, crop (3701), livestock (923) and other enterprises (756) 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	761	3701
Livestock	100	923
Other enterprise	109	756
Total	970	5380

4.1 Crop Related Technology Assessment

KVKs of Zone III of Uttar Pradesh conducted on-farm trials in 12 major thematic areas. Total of 761 technologies were assessed with active involvement of 3701 farmers. Cereals, pulses, oilseeds, vegetables, fruits, cash crops, etc. were assessed under twelve thematic areas namely Varietal assessment (237), integrated pest management (117), integrated nutrient management (129), integrated disease management (86), integrated crop management (50), weed management (61), resource conservation technologies (43), drudgery reduction (10), integrated farming system (2), Information & communication technology (14), Storage Technology (3) and farm mechanization (9), 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)	129	526	47
Varietal Evaluation	237	1063	75
Integrated Pest Management (IPM)	117	496	59
Integrated crop management (ICM)	50	222	35
Integrated disease management (IDM)	86	381	47
Weed Management	61	293	37
Integrated Farming system (IFS)	2	9	2
Farm Mechanization (FM)	9	40	3
Drudgery reduction (DR)	10	64	6
Resource conservation Technology (RCT)	43	192	31
Information and communication technology (ICT)	14	358	9
Storage Technology (ST)	3	57	4
Total	761	3701	-

4.2 Assessment of Livestock Technologies

A total of 100 technologies were assessed under livestock management by KVKs of Zone III Uttar Pradesh with active participation of 923 partner farmers (Table-4.3). The technologies related to different thematic areas like feed and fodder management (11), nutritional management (26), disease management (31), production & management (13), dairy management (9), composite fish culture (9) and health management (4) were assessed.

Table 4.3: Assessment of livestock technologies

Thematic Area	Enterprises	Technology	Trial	No. of KVKs
Disease Management	Cow, Buffalo, goat, calf,	31	230	22
Evaluation of breed	Cow, Buffalo, goat, calf	7	71	7
Feed and Fodder management	Cattle, Buffalo, fodder	11	169	19
Nutrition Management	Cattle, Buffalo and Goat	26	289	29
Production and Management	Goat	3	13	2
Health Management	Cow, Buffalo, goat, calf,	4	44	5
Composite fish culture	Fishery	9	48	7
Dairy Management	Dairy	9	59	8
Total		100	923	-

4.3 Assessment of Technologies Related to Enterprises

Thematic areas like value addition (43), drudgery reduction (14), household food security (12), women empowerment (5), nutritional gardening (18) and other (17) were taken up for assessment. 538 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	Technology	Trial	No. of KVKs
House hold food security	Vegetables	12	58	7
Value Addition	Paneer, aonla, Badi, Flour	43	361	26
Drudgery Reduction	Drudgery reduction	14	102	11
Women Empowerment	Women empowerment	5	22	3
Nutritional Gardening	Kitchen Gardening	18	76	7
Other (Pl specify)	(Honey Production, Composite Fish Culture etc.)	17	137	7
Total		109	756	61

4.4 Results of Selected on Farm Trials

4.4.1 Varietal Evaluation

Problem definition: Low Productivity of Basmati Rice (KVK Bijnor)

Technology Assessed: Assessment of suitability newly released high yielding Basmati Rice variety

The KVK Bijnor conducted on-farm trial to find out suitable high yielding basmati rice variety for better yield with disease resistance, crop duration and lodging also at farmer's field situation. The varieties assessed were Pusa Basmati-1847 and PB-1509 as check. The transplanting dates of these varieties are 05-25 June, 2023 with harvesting 15-20 October, 2023. The results revealed that yield increase of rice variety ranged between 23-27% over farmers practice. The variety Pusa Basmati-1847 gave highest yield of 49.00 qt. per ha with net return of Rs. 124370.00 and BCR of 3.60. The others technical data as given below:

- The lodging in PB-1847 is none in comparison PB-1509 (4-7%).
- Disease incidence in PB-1847 is none comparison PB-1509 (4-12%).

Performance 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 (PB-1509)	01	39.75	—	4-7	4-12	92750.00	2.90
T ₂ - Pusa Basmati-1847	(05 farmers field)	49.00	23.27	—	—	124370.00	3.60



Problem definition: Low productivity of okra variety (KVK Azamgarh-II)

Technology Assessed: Assessment of suitability of newly okra variety.

KVK, Azamgarh II conducted trial at selected farmer's field during *Kharif* 2023 and results indicated that Kashi Lalima variety of okra recorded maximum values of all tested parameters along with 25.58% increase in yield over farmer's practices.

Performance of new improved okra variety

Technology option	No. of trials	Yield (q/ha)	Yield increase (%)	Cost of cultivation (Rs/ha)	Gross Income (Rs./ha)	Net Return (Rs/ha)	BCR
T ₁ : Farmers Practice (Local variety)	05	86.00	25.58	36640	86000	49360	2.16
T ₂ : Kashi Lalima		108.00		42650	108000	65350	2.53



Problem definition: Low yield of timely sown wheat (KVK Baghpat)

Technology Assessed: Assessment of newly released high yielding timely sown wheat

KVK Baghpat has conducted on farm trial on evaluation newly released variety of timely sown wheat DBW 303 (Karan Vaishnavi) along with variety HD 2967 under farmer practice. The results showed that the variety DBW 303 showed higher

yield 64.50 q/ha than the farmer's variety HD 2967 with 53.25 qt/ha. DBW 303 gained maximum net profit Rs. 113434/ha in comparison to Rs. 83528 from HD 2967.

- Farmers Feedback:** The variety DBW 303 was found better in terms of high yield

Problem definition: Low yield of Tomato (KVK, Hamirpur)

Technology Assessed: Assessment of newly released varieties of Tomato

KVK, Hamirpur conducted On- farm trial on assessment of Tomato Varieties Kashi Aman and Chayan. The results showed enhanced in yield by 74.03 per cent and 78.94 respectively as compared to farmers practice (Abhilash). Thus it was observed that variety Kashi Chayan was found suitable for the farmers to get higher yield.

Performance of new High Yielding Variety of Wheat

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	CB ratio (Rs)
T ₁ : HD 2967 (Farmers Practice)	03	0.60	53.25	-	62682	146156	83528	1:2.30
T ₂ : DBW 303		0.60	64.50	21	62682	176062	113434	1:2.81

Performance of new improved varieties of Tomato

Technology Option	No. of Trials	Plant height at 90 days (cm)	No. of Primary Branches /Plant	No. of fruits/plant	Fruit length (cm)	Fruit diameter (cm)	Ave. fruit weight (g)	Average Yield q/ha	% increase
T1 (Abhilash)	20	103	3	57	4.2	4.9	65	285	-
T2 (Kashi Aman)		122.6	4	78	4.7	5.4	82	496	74.03
T3 (Kashi Chayan)		128	5	89	4.6	5.6	105	510	78.94

Economical	Cost of cultivation (Rs/ha)	Gross return (Rs/ha) @ Rs. 1000/q	Net profit (Rs/ha)	B:C Ratio
T1 (Abhilash)	72500	285000	212500	2.95
T2 (Kashi Aman)	85800	496000	410200	4.78
T3 (Kashi Chayan)	85800	510000	424200	4.94



T1: Tomato (Abhilash)



T2: Tomato (Kashi Aman)



T3: Tomato (Kashi Chayan)

Problem definition: Low yield of Wheat due to high temperature during grain filling (KVK, Lakhimpur-1)

Technology Assessed: Assessment of newly released High Yielding variety of Wheat

KVK, Lakhimpur-I conducted on-farm trial to assess the performance of wheat variety for heat tolerance. The variety K-1616 has realized a net return of Rs.0.53713 lakh/ha as compared to the farmer practice (PBW-343) with net returns of Rs. 0.36213 lakh/ha (48.32% increase in net return per ha). It was also seen that affected plant in case of variety PBW-343 was more as compared to K-1616. Initially the growth was slow in K-1616 but in the month of February it attained the height and its straw quality was excellent as compared to PBW-343. The grain was bold. The affected plant per metre square was more 11 in case of variety PBW -343 as compared to K-161(03).

Performance of new High Yielding Variety of Wheat

Technology option	No. of trials	Yield (t/ha)	Gross cost (Lakh/ha)	Gross return (Lakh/ha)	Net return (Lakh/ha)	BCR	%change in yield	No. of grain / ear	Length of ear (cm)	Affected plant/m ²
Farmer's practice (PBW-343)	5	3.85	0.45	0.81	0.36	1.79	-	30	13.5	11
K-1616		4.73	0.46	1.00	0.53	2.14	22.85	41	10.2	3

Problem definition: Low yield due of Vegetable pea (KVK, Saharanpur)

Technology Assessed: Assessment of newly released variety of Vegetable pea

KVK, Saharanpur conducted On-Farm Trial (OFT) to assess yield potential of mid maturing variety



Vill. -Bansi BI-Bijua

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. Farmers got vegetable pea yield 66.25 q/ha by using old varieties like Arkel whereas, the yield of Vegetable 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.

Performance of mid maturing improved variety Pusa Prabal of vegetable pea

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)		66.25	—	7	52242.75	95750.50	43507.75	1.83
T2: Pusa Prabal	05	91.77	38.52	8	49570.00	134501.25	84931.25	2.71

Problem definition: Low yield of of Marigold (KVK, Mujjafarnagar-II)

Technology Assessed: Assessment of newly released variety of Marigold

KVK Muzaffarnagar-II has conducted an On Farm Trial on assessment of marigold varieties Jamaila along with local variety under farmer practice. The crop was sown in the month July, 2023 and harvested in December, 2023. Due to compact flower and bright colour of variety Jamaila it fetches more market prices in compare to farmer's practices.

Farmers Feedback: The variety Jamaila found better in terms of high yield and farmers like compact flower and bright colour of flower.



Performance of improved variety of Marigold

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T ₁ : Local variety (Farmers Practice)	03	0.2	301	-	100000	541800	441800	5.41
T ₂ : Jamaila		0.2	369	22.59	125000	774900	649900	6.19



Problem definition: Low yield of of Okra (KVK, Mujjafarnagar-II)

Technology Assessed: Assessment of newly released variety of Okra

KVK Muzaffarnagar-II has conducted an On Farm Trial on assessment of okra variety Kashi Lalima along with variety local variety under farmer practice. The crop was sown in the month February, 2023. The results showed that the variety Kashi Lalima performed higher yield 130.0 q/ha than the local variety. Kashi Lalima gained net profit of Rs. 121500 per ha. as compared to farmer's practice i.e Rs. 111000 per ha.

- Farmers Feedback:** The variety Kashi Lalima found better in terms of high yield and farmers like dark red colour with good keeping quality.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T1: Local variety (Farmers Practice)	03	0.2	120.0	-	39000	150000	111000	1:2.84
T2 : Kashi Lalima		0.2	130.0	7.70	41000	162500	121500	1:3.96



Problem Identified: Low yield of Wheat due to high pH condition (8.4 - 8.8) (KVK, Pratapgarh)

Technology Assessed: Assessment of newly released High Yielding Salt Tolerant variety of Wheat

KVK, Pratapgarh conducted On-Farm Trial (OFT) to assess the improved salt tolerant variety of Wheat (KRL-283). This variety was found beneficial to the farmers as compared to farmer's practice (normal wheat variety: PBW-343) gave 31.0 % and 76.34 % cumulative increase in yield and net return respectively over farmer practices. The B:C ratio in improved salt tolerant variety of wheat (KRL-283) is 2.0 in comparison to farmer's practice (1.59).

Assessment of improved salt tolerant Wheat variety (KRL-283)

Technology Option	No. of trials	Yield (qt./ha)	Gross Cost (Rs./ha)	Gross Return (Rs/ha)	Net Return (Rs./ha)	Increase in yield (%)	B:C Ratio
T1: Farmer's practice (Var. – PBW-343)	05	29.00	38800	61625	22825	-	1.59
T2: Salt tolerant Wheat (Var. – KRL-283)		38.00	40500	80750	40250	31.0	2.00

application of water soluble NPK (0:52:34) @ 2.0 kg/acre gave 6.1 % higher yield over farmers practice. The foliar application of water soluble NPK at the time of panicle emergence positively increased no. of filled grain/ear head. By the technology assessed, farmer gets Rs. 0.30 extra benefit over farmer practice.

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	No. of filled Grain /ear head	Net Return (Rs./ha)	B:C Ratio
T1 - Farmers practice {120:60:0 kg/ha NPK}	05	40.0	-	38	32900.00	1.50
T2 - 75% RFD (120:60:40:25 kg NPKZn/ha) as basal + Soil conditioner @ 4.0 kg/acre + 2 spray of NPK (0:52:34) @ 2.0 kg/acre		42.5	6.1	46	40600.00	1.80

4.4.2 Integrated Nutrient Management

Problem definition: Lower productivity of Rice due to imbalance use of nutrients (KVK, G.B.Nagar)

Technology Assessed: Assessment of water soluble fertilizers on Rice yield and cost of production

KVK Gautam Budh Nagar conducted an On-Farm Trial to assess the effect of water soluble fertilizer on basmati paddy and its economics. The application of 75% of recommended fertilizer dose as basal (RFD- 120:60:40:25 kg/ha NPKZn) and application of soil conditioner along with 2 foliar

Soil Testing Result of Soil Sample of Basmati paddy

pH	EC (dS/m)	Organic Carbon %	Available Phosphorus (Kg/ha)	Available Potash (Kg/ha)
7.2 - 8.5	0.21 – 0.79	0.32 – 0.55	15.5 – 32.7	169 – 232



Farmer Practice



75% RFD (120:60:40:25 kg NPKZn/ha) as basal + Soil conditioner@ 4.0 kg/acre + 2 spray of NPK (0:52:34)

Problem definition: Low yield of Mentha due to due to imbalance use of nutrients (KVK Bareilly)

Technology Assessed: Assessment of supplementary nutrition on the basis of soil nutrient status on Mentha production

KVK-IVRI, Bareilly conducted on farm trial to assess the effect of supplementary nutrition in Mentha. The assessment based on soil testing before sowing of Mentha followed by the recommendation of fertilizer i.e. N, P, K Zn and S was performed. It has been found that there is an increase of 27% oil content with the Integrated nutrient management practices.

- Farmer's Reaction:** Farmers were satisfied with the results and actively participated in the program.

Problem definition: Low yield & poor quality of early cauliflower due to imbalance use of nutrients (KVK, Gorakhpur-I)

Technology Assessed: Assessment of application of Ammonium Molybdate and spray of soluble fertilizer

KVK, Belipar, Gorakhpur conducted On- Farm Trial on INM in early cauliflower (cv. Kashi gobhi-25) and application of Ammonium Molybdate @ 1.5 Kg/ha in basal and spray of soluble fertilizer (18:18:18) NPK @ 0.5% at 30 & 45 DAP with RDF (120:60:40) NPK/ha. Recommended technology recorded 23.77 % higher yield than Farmer's Practice.

Treatment	Production (q/ha)	Input Cost/ha (Rs.)	Gross Income / ha(Rs.)	Net Income/ha (Rs.)	B:C Ratio
T-1 Farmers Practise mentha cultivation without soil testing	1.28	80000/-	153600/-	73600/-	1.92
T-2 Mentha cultivation with soil testing	1.76	85120/-	211200/-	126080/-	2.48



Technology Option	No of trials	Yield (q/ha)	Increase in yield (%)	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
T1: (F.P.) Improved variety (Kashi Gobhi-25), No use of Ammonium Molybedate and Soluble fertilizer with RDF (120:60:40) NPK/ha.	5(0.40ha)	122		67200	244000	176800	2.63
T2: Improved variety (Kashi Gobhi-25), application of Ammonium Molybedate @ 1.5 Kg/ha in basal and Spray of Soluble fertilizer (18:18:18) NPK @ 0.5% at 30 & 45 DAP with RDF (120:60:40) NPK/ha.		151	23.77	71600	302000	230400	4.21

Problem definition: Low yield & light weight of Broccoli due to no use of micronutrients (KVK, Raebareli-I)

Technology Assessed: Assessment of application of foliar application of micro nutrients

KVK, Raebareli-I conducted On- Farm Trial on INM in Broccoli (cv. Aria) and application of N:P:K (120: 80:60) per ha at the time of transplanting and spray of micronutrient @ 1.25 Kg/ha 30 DAT. The higher yield of 200 kg/ha was obtained with 33.3 percent yield increase was obtained in demonstration plot in comparison to farmer's practice(150 Kg/ha). The Curd weight of 1.5 kg also found in demonstration plot than Farmer's practice (0.75 Kg).

Farmer's Reaction: Farmers were satisfied with variety Aria

4.4.3 Integrated Pest Managment

Problem definition: Low productivity of Basmati Rice due to heavy infestation of stem borer (KVK, Bijnor)

Technology Assessed: Assessment of efficacy of suitable insecticides for management of stem borer in Basmati Rice.

The KVK Bijnor conducted On-farm trial on assessment of efficacy of suitable insecticides for management of stem borer. The chemicals used were Cartap Hydrochloride 4% + Fipronil 0.5% CG and Chlorpyriphos 50% EC as check. The application dates of insecticide were 25-30 August, 2023. The results revealed that yield increase of Cartap Hydrochloride 4% + Fipronil 0.5% CG treated

Treatments	No of trials	Yield (Q/ha)	% Change in Yield	Curd wt. (kg)	Net Income	BC Ratio
T : Farmers Practice Use of variety Aria and use of fertilizer dose N:P:K (120: 80:60)per hac at the time of transplanting and no foliar application of micro nutrients	4	170	-	1.00	5,75,000.00	1.57
T : Use of variety Aria and Use of fertilizer dose N:P:K (120: 80:60)per hac at the time of transplanting and foliar application of micro nutrients @1.25 Kg/ha		200	17.6	1.50	625000.00	1.83



plot was 18.27% over farmer's practice. The Cartap Hydrochloride 4% + Fipronil 0.5% CG treated plot gave higher yield of 45.83 qt. per ha with net return of Rs. 134250.00 and BCR of 3.26. Stem borer incidence in Cartap Hydrochloride 4% + Fepronil 0.5% CG treated plot is less (0-5%) comparison to farmer practice (9-20%).

suitable insecticides for management of BPH in Rice.

The KVK, Baghpat conducted On-farm trial on assessment of efficacy of suitable insecticides for management of BPH in Rice. The chemicals used were Dinotofuran 20 SG and Pymetrozine 50 WG as check. The results revealed that yield increase of

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Insect incidence (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ - Local (Chlorpyriphos 50% EC)	01	38.75	–	9-20	86900	2.83
T ₂ - Cartap Hydrochloride 4% + Fepronil 0.5% CG	(03 farmers field)	45.83	18.27	0-5	109700	3.26

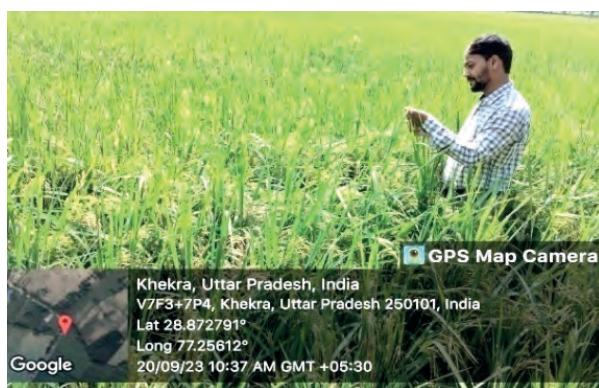


Problem definition: Low yield of Rice due to heavy infestation of Brown Plant Hopper (KVK, Baghpat)

Technology assessed: Assessment of efficacy of

Dinotofuran 20 SG treated plot was 20.97% over farmer's practice. The Dinotofuran 20 SG treated plot gave higher yield of 36.81 qt. per ha with net return of Rs. 103278.00 and BCR of 3.73.

Technology Option	No. of trials	Per cent deduction		Yield (q/ha)	% Increase in yield over farmer's practice	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	B:C Ratio
		Ist spray	IIInd spray						
T ₁ : Farmers Practice (Spray of Pymetrozine 50WG @ 120 kg/acre)	16	43.16	75.65	30.43	-	38,000.00	115,634.00	77,634.00	1:3.04
T ₂ : Spray of Dinotofuran 20 SG @ 100 g/acre		50.90	94.18	36.81	20.97	37,500.00	139,878.00	102,378.00	1:3.73



Problem definition: Low yield of Mango due to infestation of mealy bug (KVK, Basti)

Technology assessed: Assessment of efficacy of suitable insecticides for management of mealy bug in Mango.

The KVK, Basti conducted On-farm trial on

assessment of efficacy of suitable insecticides for management of mealy bug in Mango. The covering of stem with 400 gauze of 25 cm polythene + 10.0 cm pasting grease (Nov-Dec.) + use of 2.5 gm detergent/Lt + Buprofezin 25% SC @ 2.0 ml/Lt water resulted 35.45% increment in mango yield as compared to farmer's practice and found B:C ratio 4.04.

Technology option	No. of Trial	Control of Insect infestation (%)	Yield qt/tree Tree age (10 Yrs)	Cost of cultivation Rs./ha.	Gross Return Rs./ ha.	Net Return Rs./ ha.	Increase in Yield (%)	B:C Ratio
T ₁ Spraying of Emidachloroprid 17.8@ SL@1.0 ml/Lt (F.P.)	05	34	3.55	3000	8875	5875	-	2.95
T ₂ Covering of stem with 400 gauze of 25 cm polythene + 10 cm pasting grease (Nov-Dec.) + use of 2.5 gm detergent/Lt + Buprofezin 25% SC @ 2.0 ml/Lt water (R.P.)		91	5.50	3400	13750	10350	35.45	4.04

Problem definition: Low yield of Sugarcane due to infestation of top borer (KVK, Meerut)

Technology Assessed: Assessment of efficacy of suitable insecticides for management of top borer in Sugarcane

KVK, Meerut conducted On-Farm Trial to assess efficacy of suitable insecticides for management of top borer in Sugarcane. Two spray of Tetraniliprole 18.8% sc @ 800 ml/ha at 15 days interval showed lower insect incidence i.e 3.5% with higher yield 900 q/ha than the farmer practice.

Technology Option	No. of trials	Insect incidence (%)	Yield q/ha	% age increased	Cost of Cultivation	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T ₁ - Two application of Furadan @ 36k g/ha 15 days interval	06	15.8	795.0	13.20	96200	278250	181750	1:2.89
T ₂ - Two Spray of Tetraniliprole 18.8% sc @ 800 ml/ha at 15 days interval		3.50	900.0		99500	315000	215500	1:3.16



Problem definition: Low yield of Rice due to infestation of Brown Plant Hopper (KVK, Pilibhit)

Technology Assessed: Assessment of efficacy of suitable insecticides for management of BPH in Rice

KVK, Pilibhit conducted On-farm trial on assessment of efficacy of suitable insecticides for management of BPH in Rice. The use of insecticide Triflumezopyrim10SC @ 0.235 ml/ha resulted 11.70% increment in rice yield as compared to farmer's practice and found B:C ratio 2.13.

- Farmers appreciated assessed technology of application of Triflumezopyrim10SC @ 0.235 ml/ha. reduced the percentage of insect infestation from 18.15 to 3.62

KVK Sambhal, conducted On-farm trial for assessment of efficacy of suitable insecticides to manage leaf eating caterpillars in Mentha. Use of two spray of Chlorantraniliprole 9.3% + Lambda Cyhalothrin 4.6% ZC @ 250 ml/ha. gave 13.31% higher yield over farmers practice (Two spray of Emamectin Benzoate5SG@ 250g/ha).The insect infestation showed 1.68 times more in farmers practice as compare to Emamectin Benzoate5SG@ 250g/ha treated plots.

- Two spray of Chlorantraniliprole 9.3% + Lambda Cyhalothrin 4.6% ZC @ 250 ml/ha. as first spray at the binging of infestation of leaf eating caterpillars (Last March to first week of April) and second spray after 12-15 days of first spray

Technology Option	No. of trials	Infestation of Brown Planthopper (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Cost of Input/ha (Rs.)	Total return per ha (Rs.)	Net Return (Profit)/ha (Rs.)	CB Ratio
Application of pymetrozin 50 WG @ 0.3 kg/ha (Farmers Practice)	05	18.15	49.99		52256	104969	52713	2.01
Application of triflumezopyrim10SC @ 0.235 ml/ha.		3.62	55.84	11.70	55095	117254	62159	2.13

Problem definition Low yield of Mentha oil due to infestation of Leaf eating caterpillars (KVK, Sambhal)

Technology assessed: Assessment of efficacy of suitable insecticides for management of Leaf eating caterpillar in Mentha

- This treatment is more effective to minimize and control of the leaf eating caterpillars in Mentha as compare to farmers practice (two spray of Emamectin Benzoate5SG@ 250g/ha.)
- Date of planting—11-14 Feb.2023 harvesting: 12-15 June.2023



Technology Option	No. of trials	Insect Infestation (%)	Yield (k/ ha)	% Increase in yield	Cost of culti. (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs.)	BC Ratio
T ₁ : Farmers practice (Use of Emamectin Benzoate 5SG @ 250g/ha.) Two spray	04	10.12	125.06	-	65050	131313	66263	2.01
T ₂ : Use of Chlorantraniliprole 9.3% + Lambda Cyhalothrin 4.6% ZC @ 250 ml/ha. Two spray		6	144.17	15.28	68675	151378	82703	2.20

Problem definition: Low yield due to pod borer in Chickpea (KVK, Raebareli-I)

Technology Assessed: Assessment of efficacy of chemical for management of pod borer in Chickpea.

The KVK Raebareli-I conducted On-farm trial to assess efficacy of insecticides to manage pod borer in chickpea. The chemical tested were chlorantraniliprole 8.8 % + thiamethoxam 17.5 % SC @ 0.30 ml/Lit. and Quinolphos as check. The results revealed that yield increase of 30% by spray of chlorantraniliprole 8.8 % + thiamethoxam 17.5 % SC @ 0.30 ml/Lit. treated plot over farmer's practice. The chlorantraniliprole 8.8 % + thiamethoxam 17.5 % SC @ 0.30 ml/Lit. treated plot gave higher yield of 19.16 qt. per ha in comparison to farmer's practice (9.18%).

Rice. The chemical tested were Azoxistrobin 18.2% + Difenconazole 11.4% WG and Tricyclazole as check. The application dates of fungicides 15-20 September, 2023. The results revealed that yield increase of Azoxistrobin 18.2% + Difenconazole 11.4% WG treated plot 21.65% over farmer's practice. The Azoxistrobin 18.2% + Difenconazole 11.4% WG treated plot gave higher yield of 49.16 qt. per ha with net return of Rs. 122850 and BCR of 3.53 than farmer's practice. Disease incidence in Azoxistrobin 18.2% + Difenconazole 11.4% WG treated plot is less (0.3%) in comparison to farmer's practice (9.18%).

Sr No	Technology option	No. of farmers	% Infestation	Yield q/ha	Cost of cultivation Rs/ha	Gross return Rs/ha	Net return Rs/ha	B C Ratio
T1	Insecticide spray (Quinolphos)	3	12 %	15.0	23900	80025	56125	3.3
T2	chlorantraniliprole 8.8 % + thiamethoxam 17.5 % SC @ 0.30 ml/Lit.		5.5 %	19.6	30	25600	104299	78699

4.4.4 INTEGRATED DISEASE MANAGEMENT

Problem definition: Low yield in Basmati Rice due to Blast (KVK, Bijnor)

Technology Assessed: Assessment of efficacy of suitable fungicides for management of blast disease.

The KVK Bijnor conducted On-farm trial to assess efficacy of fungicides to manage blast disease in

Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Disease incidence (%)	Net Return (Rs./ha)	B:C Ratio
T1- Local (Tricyclazole)	01 (03 farmers field)	40.41	—	9.18	93134	2.96
T2- Azoxistrobin 18.2% + Difenconazole 11.4% WG		49.16	21.65	0.3	122850	3.53



Problem definition: Low yield of Lentil due to soil born diseases (wilt and dry root rot) (KVK, Banda)

Technology assessed: Assessment of IDM module for soil born diseases (wilt and dry root rot) in lentil

KVK, Banda conducted on-farm trial to assess the IDM module (summer ploughing, seed treatment with *Trichoderma viride*@4g/kg, soil application of *T.viride*@2.5kg/ha enriched in 100kg of FYM at time of sowing, neem cake@250kg/ha at sowing time and foliar spray of vitavax power@ 2g/l water) for management of soil borne diseases (wilt and dry root rot) in soil. The results showed reduction in percentage of disease incidence from 18.60 to 6.20% and increase in yield by 25.00 per cent over farmer's practice.



Problem definition: Low yield of Urd due to yellow Mosaic disease (KVK, Firozabad)

Technology Assessed: Assessment of efficacy of suitable fungicide for management of YMV in Urdbean

KVK Firozabad conducted On-farm trial to assess efficacy of fungicide to manage YMV in Urdbean. The results indicated that the spray of Thiomethozim @ 1 lt./ha spray at 25 day after sowing, second spray at 45 day after showed 42.31% increase in yield over farmer's practice and reduction in disease incidence from 50% to 10%.

Technology Option	No. of trials	No. of infected ear/m ² plants (%)	Yield kg/ha	% Increase in yield over FP	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Seed treatment measure not in practice (Farmers Practice)	10	18.60	09.20	25.00	17530	51520	33990	1.93
summer deep ploughing, seed treatment with <i>Trichoderma viride</i> @4g/kg, soil application of <i>T.viride</i> @2.5kg/ha enriched in 100kg of FYM at sowing, neem cake@250kg/ha at sowing time and foliar spray of vitavax power@2g/l		6.20	11.50		19000	64400	45400	2.38



Technology Option	No. of trials	Yield (qt/ha)	Increase in yield %	Disease Infestation %	Gross cost (Rs.)	Gross return Rs.	Net Return Rs.	B:C
T ₁ – No use of insecticide	03	5.20	-	50	20200	34320	14120	1.7
T ₂ – Spray of Thiomethozim @ 1 lt./ha spray of 25 day after sowing second spray 45 day after sowing.		7.40	42.31	10	20500	48840	28340	2.38

Problem definition: Low yield of Sesame due to stem and root rot (KVK, Jalaun)

Technology assessed: Integrated Management of stem and root rot disease of sesame

KVK Jalaun conducted On-farm trial to assess the IDM module (deep summer ploughing, seed treatment with *Trichoderma viride*@4g/kg, soil application of *T.viride*@ 2.5kg/ha enriched in 100kg of FYM at time of sowing, neem cake@250kg/ha at sowing time and foliar spray of copper oxychloride 50% WP@2 g/l water) to manage stem and root rot of sesame. The results showed reduction in percentage of disease incidence from 18.20 to 4.20% and increase in yield by 36.8 per cent over farmer's practice.

Problem definition : Low yield of Rice due to False smut (KVK, Jaunpur II)

Technology Assessed: Management of false smut in rice

KVK Amihit,Jaunpur conducted On-farm trial to manage the false smut in rice. Seed and soil treatment with *Trichoderma* (6g/kg seed and 1kg/acre in soil). + spray of Azoxystrobin 11% + Tebuconazole-18.3% SC @ 1.0 ml/liter of water at tillering / pre flowering stage reduced the percentage of disease infestation from 26.1 to 6.9% to and increase in yield by 30.6 per cent.

Technology Option	No. of trials	No. of infected plants(%)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Seed treatment measure not in practice (Farmers Practice)	08	18.2	3.8	-	8500	30,400	21900	1.57
summer deep ploughing, seed treatment with <i>Trichoderma viride</i> @4g/kg, soil application of <i>T.viride</i> @2.5kg/ha enriched in 100kg of FYM at sowing, neem cake@250kg/ha at sowing time and foliar spray of copper oxychloride 50% WP@2 g/l		4.2	6.2	36.8	9300	41600	32300	2.47

Technology Option	No. of Trials	Disease infestation (%)	Yield (q/ha)	% Increase in yield	Net Return (Rs/ha)	BCR
T1- (Farmers Practice)	5	26.1	39.87	–	49721	2.33
T2- (Recommended Practice)		6.9	52.07	30.59	75668	3.00



Problem definition: Low yield and poor quality of potato due to black scurf and scab disease (KVK, Etawah)

Technology Assessed: Assessment of new fungicides for Black scurf and scab disease of potato.



Problem definition: Low yield due to Pokka Bowing disease in Sugarcane (KVK, Meerut)

Technology assessed: Assessment of efficacy of fungicides to control Pokka Bowing disease in Sugarcane

Technology Option	No. of trials	Germination % at 15 DAS	Infected tubers (%)	Yield (q/ha)	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Farmers Practices (No seed treatment)	15	18.25	27.19	286.18	81000	228944	147944	2.82
Seed treatment with Thifluzamide @ 750 ml /ha.		22.50	15.25	310.25	83500	248200	164700	2.97
Seed treatment through Penflufen @ 250 ml / ha.		25.45	10.40	320.45	83800	256360	172560	3.06

Problem definition: Low yield and poor quality of potato due to late blight disease (KVK, Etawah)

Technology Assessed: Assessment of new fungicides for late blight disease of potato.

KVK Etawah conducted On-farm trial to manage the late blight disease of potato. Spraying of **Dimethomorph @ 1.00 kg/ ha + Mancozeb @ 2.0 kg/ ha** was found very effective in enhancing yield of potato by 9.42 % and additional net returns Rs. 19148 /ha over farmers practice.

KVK, Meerut conducted On-Farm Trial to assess efficacy of fungicides as two spray of Azoxystrobin 8.3% + Mancozeb 66.7% @ 1500g/ha 15 days interval and two Spray of Copper-oxychloride @ 3000 g/ha 15 days interval as farmer's practice to manage Pokka Bowing disease in Sugarcane. Two Spray of fungicide Azoxystrobin 8.3% + Mancozeb 66.7% @ 1500g/ha at 15 days interval showed 11.31 % increase in yield over farmer's practice.

Technology Option	No. of trials	Disease Intensity (%)	Yield (q/ha)	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Farmers Practices (Spray of Mancozeb)	15	20.32	287.15	81000	229720	148720	2.83
Spraying of Dimethomorph @ 1.00 kg/ ha + Mancozeb @ 2.0 kg/ha		11.22	314.21	83500	251668	167868	3.01

Technology Option	No. of trials	Disease incidence (%)	Yield q./ha	% age increased	Cost of Cultivation	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T ₁ - Two Spray of Copper-oxychloride @ 3000 g/ha 15 days interval	06	13.50	792.0	11.31	96200	277200	181000	1:2.88
T ₂ - Two Spray of Azoxystrobin 8.3% + Mancozeb 66.7% @ 1500g/ha 15 days interval		4.50	893.0		99500	312550	213050	1:3.14



4.4.5 Integrated Crop Management

Problem definition: Low income of banana due to sole crop (KVK, Lakhimpur-1)

Technology Assessed: coriander as intercrop in banana G-9 field during gestation period.

KVK, Lakhimpur-Kheri, U.P. has conducted on-farm trial to assess the coriander as intercrop

in banana G-9 field during gestation period. The coriander variety premium plant hybrid seed has recorded average production of coriander was 9.4q/ha and as well as banana variety G-9 production was 836.3q/ha whereas in sole crop production was 842.25q/ha. The net profit was Rs.597100.00 in intercrop with coriander as compared to sole crop of banana net profit of Rs.523000.00.

Performance of banana and coriander

Technology option	No. of trials	Yield (q/ha)	Yield of inter crop (q/ha)	Net return (Rs./ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	BCR
Farmer's practice (Banana sole)	5	842.25	-	523000	285500	808500	2.38
Banana + Coriander		836.3	9.4	597100	295100	892200	3.02



Village.Stationpurva
Block- Bnakyganj

Problem definition: Low yield of wheat due to crop wilting in flat bed.

Technology Assessed:

KVK, Lakhimpur-Kheri, U.P. conducted on-farm trial to assess the of wheat yield sown on ridges. It has been observed that increase in yield to the tune of 9.95% as compared to flat bed sown wheat crop because generally when irrigation applied plant get wilted in flat bed.

Performance of wheat

Technology option	No. of trials	Yield (t/ha)	Net return (Rs./ha)	Gross return(Rs/ha)	% change in yield	BCR	Cost of cultivation (Rs./ha)
Farmer's practice (lat sown)	5	4.12	42050	87550	-	1.92	45500
sown on ridge bed		4.53	49713	96263	9.95	2.06	46550



← Village-Bansi
Block-Bijua

4.4.6 Resource Conservation Technology

Problem –Low income due to high cost of cultivation (KVK, Varanasi)

Technology Assessed: Assessment of paddy drum seeder technique for sowing

KVKs of Varanasi took up on-farm trial on

assessment of paddy drum seeder technique for sowing. During transplanting time unavailability of labour and high wages increases the cost of cultivation. Therefore, KVKs of Varanasi took up on-farm trial on assessment of paddy drum seeder technique for sowing. The performance of paddy drum seeder found 21.81% more yield with B: C ratio is 1.87 over the farmers practice.

Crop	Technology Demonstrated	Technology Option	No. of trials	Yield (qt./ha)	Increase in yield (%)	Gross Return (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
Paddy	Method of sowing	T Transplanting (Farmers Practice)	10	37.6	-	76704	24254	1.46
		T – Drum seeder ² (Recommended Practice)		45.8	21.81	93432	43382	1.87



4.4.7 Livestock

Problem definition: Poor milk yield & problem of prolapsed of uterus at last stage of pregnancy in H.F. cows (KVK, Ambedkarnagar)

Technology Assessed or Refined: Assessment of Balance feeding with protein & mineral mixture in concentrate with de-worming enhance the productivity and reduce the problems of prolapsed of uterus at last stage of pregnancy.

Performance of Technology Assessed

Technology Option	No. of trials	Parameter*-Problems of prolapsed of uterus during last stage of pregnancy	Av. Milk production (Lit./day)	% change in Yield	Grass cost (Rs./day.)	Grass income (Rs. ./day)	Net Income (Rs./day)	BC Ratio
FP- Feeding of paddy / wheat straw with limited green fodder and imbalance concentrate mixture	(6 lactating H.F. cows.)	In 3 animals among six ,some extent problems have been in observed	6.8	---	180	272	92	1:1.5
T-1 -FP + Balance feeding with concentrate and 50g. minerals mixture/day with de-worming 1 st day and 60 th day		No problems found till now	9.3	36.76	210	372	162	1:1.7



Distribution of Minerals mixture and Dewormer among the farmers in Ambedkar nagar

Problem definition: High disease incidence, high feed cost and required better management in Broiler poultry farming (KVK, Ambedkar Nagar)

Technology Assessed or Refined: Assessment of performance of Cary Shyama Poultry Back Yard Poultry Farming in traditional system of farming.

Broiler rearing is costly required well managed housing system, required hygienic condition along with costly industrial made feed and not fit for Back yard poultry system. KVK Ambedkar Nagar conducted trial on assessment of Cary Shyama birds in Back Yard Poultry Farming in traditional system of farming. In back yard poultry farming system Croiler Poultry birds gain better body weight with locally available feed ingredients prepared feed.

Performance of Back Yard Poultry in traditional system of farming.

Technology Option	No. of trials/ Farmers	Av.Body weight gain in 45 days (Kg.)	Diseases incidence	Feed cost/ weight gain ratio per kg.	Gross cost (Feed + medicine) / bird	Gross Return/ Bird (Rs.)	BC Ratio
FP- Rear Broiler on Back yard poultry farming system along with costly industrial made feed.	3 (100 Cary Shyamapoultry birds/ farmer)	2.10Kg.	Incidence of Gombhoro & Coccidiosis diseases	Rs. 69/Kg.	Rs.159.9	252	1:1.58
T-1 – Rear 100 Cary Shyama poultry birds in Back Yard Poultry Farming System with locally available feed ingredients prepared feed- by wheat grain, yellow maize, Rice bran, till cake, fishmeal etc.		2.14Kg.	Coccidiosis in very less extent	Rs.76/Kg.	Rs.177.7	342.4	1:1.9

Av. sale price of broiler birds Rs. 120/Kg. and Cary Shyamabirds Rs.160 / Kg.



Shyama Poultry Birds

Result- Cary Shyama Poultry birds gain better body weight with locally available feed ingredients prepared feed with fewer incidences of infectious diseases. This variety is ideally suited for rearing give more profit than broiler poultry birds.

Effect of micro-nutrients in fish feed.

Technology option	No. of trials	Av. Body weight gain (kg)	Av. Yield (qt./ha)	Net profit (Rs./ha)	B:C Ratio
T ₁ No use of micro-nutrients in fish feed (Farmer's practice)	5	0.58	15.5	90000	1.38
T ₂ Use of mineral mixture @ 2% in fish feed (Recommended practice)		0.95	17.93	158090	2.10



View of OFT on balance Fish feed- Effect of Mineral mixture in fish at Farmers Fields
KVK Balrampur

Problem definition: Low fish production due to no use of micro nutrients in supplementary fish feed (KVK, Balrampur)

Title of Technology:- Impact of micro-nutrients in fish feed.

K.V.K., Balrampur conducted On Farm trial on impact of micro-nutrients in fish feed. The results indicated that maximum body weight gain (0.95kg/year), yield (17.93qt/ha), net profit (Rs. 158090/ha) and benefit cost ratio (2.10) were observed in use of micro-nutrients in fish feed @ 2% over farmer practice. The fish farmers are much interested to use of micro-nutrients in fish feed due to it provides maximum yield and profit.

Problem definition: Low productivity and profitability of desi breed in backyard poultry (KVK, Gautambudh Nagar)

Technology Assessed: Use/Evaluation of dual purpose breed (Cari-Nirbheek).

KVK, GautamBuddh Nagar conducted trial to find out suitable breed for backyard poultry.

Assessment of Backyard poultry

Technology Option	No. of replication	Egg yield/ month / bird	Body wt (kg)	Gross cost/ bird (Rs.)	Gross return/ bird (Rs)	B:C ratio
Farmer's practice (desi breed)	05	08	0.94	100	160	1.45:1
Use of dual purpose breed (Cari-Nirbheek) and supplementary feeding (30 gm feed/day/bird)		14	1.75	145	280	1.93:1



Awareness programme



Birds at farmers backyard



According to above parameter analysis Cari-Nirbheek breed shows better performance in terms of productivity and profitability.

Problem Definition:- Low Milk yield in Buffalo (KVK, Basti)

Technology Assessed- Assessment of Supplementation of Probiotics on milk Production and conception rate in buffaloes.



Technology Option	No. of Trials	No.of animal	Previous milk yield (lt.)per day/animal	Milk yield during trial (lt.) per day/ animal	Milk increase (%)	Conception Rate (%)	Additional cost/ animal/ day Rs.	Net Return Rs./ animal/ day	BC ratio
T ₁ – 10 kg wheat straw + 2.0 kg concentrate mix.+ 20 kg green fodder +100 gm juggary (F.P)	05	5	4.80	5.20	8.33	40	9.00	59.15	1.40
T ₂ 10 kg wheat straw + 2.0 kg concentrate mixture + 20 kg green fodder + Probiotics 20gm/day (bacteria base with vitamin and trace mineral)(R.P.)		5	4.85	6.15	26.80	80	21.50	84.65	1.52

Problem definition: Lower milk yield and conception rate in buffaloes (KVK, Mau)

Technology Assessed: Assessment of suitable Probiotics for buffaloes

KVK Pilkhi, Mau conducted trial on suitable probiotics in buffaloes for higher milk yield and conception rate. The result indicate that probiotics bolus feeding per day increase 12.00% milk and conception rate 65% was found in comparison to FP and biotic feeding. Physical appearance, milk yield and conception rate of probiotic feeding was found higher than F.P.

Problem identified: Reduce net profit due to CRD disease of broiler in rainy season (KVK, Siddhartha nagar)

Technology Assessed: Assessment of Amoxicillin Antibiotics in the feed of broiler.

Krishi Vigyan Kendra, Sohna, Siddharthnagar conducted on farm trial to find out the suitable technology for getting higher net profit from broiler farming. For control of CRD disease Amoxicillin antibiotic added 10 mg /kg body weight at 17, 18 & 19 days and liver tonic 20 ml/ 100 chicks. The recommended technology recorded 19.51 percent higher yield over farmer practice.

Effect of probiotic on milk yield and conception rate in buffaloes

Technology Option	No. of trial/ animals	No. of animal	Starting milk yield (lt.) per day/animal	Milk yield during trial (lt.)per day/ animal	Milk increased (%)	Conception Rate (%)
Gur feeding (Farmers practice)	5	5	7.0	7.5	7.14	28
Probiotic (bacteria base with vitamin and trace minerals) (Recommended practice)		5	7.5	8.40	12.00	65



Effect of Amoxicillin Antibiotics on broilers.

Technology	No. of trial	No. of chicks	Mortality %	Total weight at 45 days (Kg)	%increase over FP
T1-No use of proper antibiotic (FP)	5	200	12	2.05	-
T2-Amoxicillin Antibiotics 10 mg /kg body weight at 17, 18 & 19 days and liver tonic 20 ml/ 100 chicks	5	200	3	2.45	19.51

Economics

Technology	Average cost up to 45 days	Gross return (Rs./day)	Net return (Rs./day)	B:C Ratio
T1-No use of proper antibiotic (FP)	32000	36080	4080	1.13
T2- Amoxicillin Antibiotics 10 mg /kg body weight at 17, 18 & 19 days and liver tonic 20 ml/ 100 chicks	34200	47040	12840	1.38

(Broiler Rate Rs. 100/- per Kg)



Problem definition: Low weight gain in fishes, Low income of fish farmer

Technology Assessed: To assess the enhancement of fish weight gain through mineral mixture.

KVK-II, Sitapur conducted on-farm trial to assess the measures by assess the enhancement of fish weight gain through mineral mixture supplements. Mineral Mixture was add in fish feed @ 2% and find that treatment group fish production 15.98 % more than control group and B.C Ratio 4.1: 1 over the control which was 3.7:1

Farmers Feedback: Earlier farmers are not aware about mineral mixture results. Farmers appreciated the improving of fish weight gain in same diet due to Mineral mixture supplementations.

4.4.8 Drugery Reduction

Problem definition: Low work efficiency and high drudgery of farm women during weeding in onion (KVK, Baghpat)

Technology Assessed : Use of Twin wheel hoe for drudgery reduction and efficiency enhancement of farm women involved in weeding onion.

Many agriculture operations are performed by women involve a lot of physical strain. Weeding is one of them. Traditionally khurpi is being used in Baghpat. In order to enhance the efficiency and reducing drudgery, Krishi Vigyan Kendra, Baghpat conducted a trial by introducing twin wheel hoe as T2 (technology option 2) for weeding of onion against traditional khurpi as farmer practice T1 (technology option 1) on three locations. Results revealed that the activity became less drudgery prone as the perceived exertion has been reduced from severe to mild when work is performed by T2 and The output is increased by 90.08%.

Effect of Mineral Mixture supplements on productivity of Fish

Technology Option	No. of trials	Fish Yield (q/ha)	Change in Yield (%)	Parameter Body weight gain (g) in 150 days	Gross return	Net Return (Rs.)	B:C Ratio
Farmers Practices – (Rice polish-8 kg + Mustard oil cake-2kg)/ Acre/ Day	5	38.5	-	550	236900	172800	3.7:1
Recommended Practice- Mineral Mixture @ 2 % of fish feed		44	14.28	640	275050	208500	4.1:1

Result:

Technology	Parameter	Data	Result
T ₁ : Farmers Practice (Use of khurpi for weeding onion)	Output m ² /hr	62.5	The output is increased by 157.2% when the work was performed by T2 (Twin wheel hoe) Secondly the activity became less drudgery prone as the rate of perceived exertion found moderately heavy (in case of T1 to light as in case of T2)
	Average working heart rate (b/min) EER (KJ / min)	105.50	
	Rate of perceived exertion (Pain in legs and upper arms) (on 5 point scale)	Moderately heavy	
T ₂ : Use of twin wheel hoe for weeding onion	Output m ² /hr	160.75	
	Average working heart rate (b/min) EER (b/m)	112	
	Rate of perceived exertion (on 5 point scale) Pain in legs and upper arms) (on 5 point scale)	Light	



Problem definition: Assessment of groundnut stripper for drudgery reduction among farm women (KVK, Mahoba)

Technology Assessed or Refined: Groundnut stripper

An on farm trial was conducted by KVK, Mahoba to assess the performance of groundnut stripper for drudgery reduction among farm women of district. Groundnut stripper reduced the energy expenditure from 8.13 to 7.02 kj/min. and heart rate upto 7 beats/min. Average percent increase in efficiency was found 69.44 and Average percent reduction in drudgery was 13.65 with use of groundnut stripper.

4.4.9 Farm Machinery

Problem diagnosed: Low yield due to higher infestation of diseases and pest of ratoon crop of Sugarcane due to traditional ratoon management practices (KVK, Merrut)

Technology Assessed: Application of ratoon manager machine for sugarcane ratoon crop to have higher yield and low infestation diseases and pest

As Meerut is pre dominated by the sugarcane area, hence there is big issue of traditional ratoon management practice which is normally performed by a manual tool i.e. Balkati which lead to low yield and high infestation of diseases and pest. Krishi Vigyan Kendra, Hastinapur, Meerut is intervening in ratoon management techniques to replace the traditional techniques of sugarcane ratoon management done by Balkati by introducing ratoon manager in the ratoon field to assess the effect on yield and diseases infestation at farmer field.

Effect of weeding tool (bicycle weeder) on body drudgery reduction among farm women

Technology Option	No. of trials	Average of output (m ² /hr)	Average of % increase in efficiency	Average WHR (beats/min.)	Est. energy expenditure (kj/min.)	Average of % reduction in drudgery	Cardiac cost of work
T ₁ – Farmers practice (Hand separation of groundnut pod)	7	3.3	-	106	8.13	-	30
T ₂ – Groundnut stripper		10.8	69.44	99	7.02	13.65	23

Performance of tractor operated ratoon manager

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T ₁ : Farmer practice – Use of Balkati tool for managing the ratoon sugarcane crop	06	800	25.58	81200	280000	198800	1:3.44
T ₂ : Application of Tractor drawn ratoon manager		1075		84800	376250	371450	1:4.44



Comparative high tillering then traditional



Tractor Drawn Ratoon Manager Machine traditional

On Farm Testing



OFT on black : KVK Muzaffarnagar II



OFT under ICM: KVK Bijour I



OFT on paddy: KVK Aligarh



OFT on livestock: KVK Lucknow



OFT on poultry: KVK Bareilly



OFT on kitchen garden: KVK Muzaffarnagar II



OFT on wheat: KVK Unnao



OFT on pea: KVK Saharanpur

On Farm Testing



Vrikchharopan Programme: KVK Mahoba



OFT on sugarcane: KVK Muzaffarnagar II



OFT on Paddy: KVK Bahraich II



OFT on marigold: KVK Muzaffarnagar II



OFT on astard: KVK Mathura



OFT on turmeric: KVK Baghpat



OFT Bottle gourd: KVK Mahoba



OFT onpaddy: KVK Bahraich I

EXTENSION PROGRAMMES

Extension programs are one of the important mandated activities are carried out by the KVKs of Uttar Pradesh. In all 50098 extension activities with 16.68 lakh beneficiaries, 25767 mass communication extension activities, 814872 mobile advisories through text and voice for 46.72 lakh farmers, 24560 soil samples covering 40064 farmers, 8620 technology week celebrations with 3.26 lakh beneficiaries, 17 trainings under rain water harvesting & micro irrigation system with 3268 beneficiaries have been reported. Total 58 SACs have been conducted by 55 KVKs, 445 activities conducted under technology backstopping by DEs and 15688 farmers have been benefitted by ATIC centres in this Zone. (Table-5.1)

Table-5.1: Physical achievement of extension programmes

S. No.	Programmes	Number	Beneficiaries
1	Extension activities	46228	6454145
2	Other extension programs (mass communication)	27206	mass
3	Mobile advisories	785814	3268351
4	Soil samples	36114	45962
5	Technology week celebrations	13320	377683
6	Trainings and Demonstrations under Rain Water Harvesting & Micro Irrigation System	37	18561
	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 (46228) were organized for 6454145 farmers and extension personnel by KVKs of Uttar Pradesh. The major activities like advisory service (14721), diagnostic visits (3495), field days (816), group discussions (888), kisan gosthies (1330) film shows (737), self help groups (317), kisan mela (353), exhibitions (388), scientist visit (9247), plant/animal health camps (199), farm science clubs (68), ex-trainees meet (76), farmers' seminars (145), method demonstrations (430), celebrations of important days (496), special days celebration (486), exposure visits (441) with the participation of 6397527 farmers and 56618 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	No of KVKs
Advisory Services	14721	4982191	9377	4991568	89
Diagnostic visits	3495	35170	1502	36672	89
Field Day	816	31208	1309	32516	87
Group discussions	888	17661	1475	19136	84
Kisan Gosthi	1330	171110	7004	178114	89
Film Show	737	36929	1061	37990	67
Self Help Groups	317	7553	418	7971	73
Kisan Mela	353	218536	7462	225998	85
Exhibition	388	196456	5806	202263	84
Scientists' visit to farmers field	9247	90426	2972	93398	89
Plant/animal health camps	199	11087	727	11814	64
Farm Science Club	68	2947	80	3026	43



Ex-trainees Sammelan	76	4872	171	5043	66
Farmers' seminar/workshop	145	16354	1162	17516	61
Method Demonstrations	430	11116	592	11708	71
Celebration of important days	496	50896	2111	53007	88
Special day celebration	486	33863	2014	35877	89
Exposure visits	441	16542	707	17248	81
Others	11596	462609	10669	473278	75
Total	46228	6397527	56618	6454145	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 (27206) also. The major activities like electronic media (194), extension literature (13843), news paper coverage (6882), popular articles (1029), radio talks (430), and TV talks (274), Animal health camps (4006) were performed.

S. No.	Particulars	Number	No. of KVKs
1	Electronic Media (CD./DVD)	194	42
2	Extension Literature	13843	84
3	News paper coverage	6882	89
4	Popular articles	1029	82
5	Radio Talks	430	71
6	TV Talks	274	61
7	Animal health camps (No. of animals treated)	4206	57
8	Others	349	46
	Total	27206	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 62680 text messages, 674799 voice messages and 48335 text including voice to 3268351 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	27935	146276	15638	1011847
Livestock	3114	139172	3840	157934
weather	25133	128336	22386	1845822
Marketing	965	128026	740	43407
Awareness	4084	130582	3622	161141
Other enterprise	1450	2408	2109	48201
Total	62680	674799	48335	3268351

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, 36114 samples of soils, water (559), plant/manures (1105) were analyzed by 42 KVKs. Those samples were collected from 1489 villages and 45962 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 26121 Soil Health Cards (SHC) has been issued by the KVKs to farmers for the purpose.

realistic action plan of KVKs. Participatory planning is the main feature of KVK system for enhancing crop production and productivity towards fulfilling the needs of the farmers.

5.4.3 Technology week celebrations

In Uttar Pradesh, 13320 activities were organized by KVKs by benefiting 377683 farmers. The main activities involved in this program are distribution seeds (1485 q), bio-fertilizers (32 q) and bio-products (134.69 q) to farmers and other activities like goshies (778), lectures (1654), exhibition (138), film show (146), Fair (246), farm visits (1198), diagnostic practical (1040), distribution of literature (8120), distribution of planting materials (4.17 lakh), distribution of fingerlings (71.94) and distribution of livestock specimen (708). Details are given in following Table 5.4.3.

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	34450	44527	1241	439579	26103	39
Water	559	392	55	8850	14	1
Plant	1090	1038	192	-	-	2
Manure	15	5	1	600	4	-
Total	36114	45962	1489	449029	26121	42

5.4.2 Scientific Advisory Committee Meetings (SACs)

Total 52 Scientific Advisory Committee meetings were organized by all KVKs in U.P. It is one of the important platform to obtain the suggestions from different stakeholders towards designing

5.5.4 Rain water harvesting & micro irrigation system

In total, 28 trainings and 9 demonstrations were conducted and 18561 farmers and 141 officials visited the system also 76500 plant material produced under the zone in context to rain water harvesting and micro irrigation system.

Table 5.4.3: Details of Technology week celebrations by KVKs

Type Activities	No. of activities	No. of participants	No of KVKs
Goshies	778	34800	68
Lectures organised	1654	30163	67
Exhibition	138	70063	52
Film show	146	7517	46
Fair	246	20691	38
Farm Visit	1198	27574	68
Diagnostic Practicals	1040	7674	54
Distribution of Literature (No.)	8120	71134	59
Distribution of Seed (q)	1485	5814	46
Distribution of Planting materials (No.)	417480	52197	57
Bio Product distribution (Kg)	13469	4246	38
Bio Fertilizers (q)	32	573	27
Distribution of fingerlings	7194145	330	20
Distribution of Livestock specimen (No.)	708	154	4
Total no. of farmers visited the technology week	1881	44753	60
Total	13320	377683	-

EXTENSION ACTIVITIES



Vrikchharopan Programme: KVK Amethi



Independence day celebration: KVK Fatehpur



World Fisheries day : KVK Bareilly



Meri life programme: KVK Etah



Parthenium awareness programme: KVK Etawah



KVPM Kisan Samman Nidhi: KVK Bareilly



Technology Week: KVK Bareilly



Drone Demonstration: KVK Fatehpur

Extension Activities



Vrikchar opan Programme: KVK Mahoba



Awareness program of International Millets Year: KVK Bijnour



Farmers visit to KVK: KVK Fatehpur



Beekeeping under ARYA Project: KVK Pratapgarh



Parthenium awareness programme: KVK Agra



Swachhata Pakhwara: KVK Fatehpur



Viksit Bharat Sankalp Yatra: KVK Fatehpur



Exposure visit: KVK Bareilly



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 (24767.77 q), planting material (86.29 lakh), bio-product (2915.92 q) and livestock strain (146.62 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)	28898.59	1316.52	25406
Planting material production (Lakh)	86.29	47.60	40450
Bio-product production (q)	2915.92	23.28	8044
Livestock strain (Lakh)	146.62	37.80	1907

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 2023, KVKs of Uttar Pradesh produced **28898.59** q seed of cereals (9855.68 q), pulses (6495.95 q), oilseeds (1288.19 q), commercial crops (2637.91 q), fodder (1709.00 q), vegetables (219.51 q) and spices (66.62 q).

6.1.1 Cereals

The KVKs produced 9855.68 q of seeds of cereals as per details given in Table 6.3. The seed of important cereal crops produced included paddy (6038.99 q), wheat (9855.68 q), jowar (57.85. q), barley (62.18 q), maize (248.68 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

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	16481.41	411.89	15037	3015	89
Pulses (Seed Hub)	6495.95	817.99	4564	702	8
Oilseeds	1288.19	61.64	4630	934	72
Commercial crops	2637.91	16.92	187	36	28
Fodder/fibre crop	1709.00	1.22	120	28	12
Vegetables	219.51	3.97	704	103	34
Spices	66.62	2.88	164	57	14
Total	28898.59	1316.52	25406	4875	89

(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 6495.95 q. The important pulse crops like Field pea (1580.00 q), Chick pea (1320 q), Lentil (1260.00 q), Pigeon pea (860.00 q), Urdbean 432.00 q), Moongbean (930.00 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 1288.19 quintals of oilseeds. The important oilseed crops like Mustard (1179.46 q), Sesum (27.48 q), Groundnut (1.50 q), Linseed (18.48 q), Toria (55.07 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 219.51 q of seeds of vegetables. KVKs produced seeds of important varieties of different vegetables vegetable pea (12.39 q), onion (24.22 q), suran (72.50 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 1709 q was produced in Uttar Pradesh. Berseem (Vardan, JB-2, Shipra), Napier grass (q), Sun hemp and other fodder crops produced seed of 0.78 q, 1630 q, 59.77 q and 18.45 q respectively.

6.1.6 Spices

The total quantity of spices seeds produced was 66.62 .q. The seeds of different spices were produced viz. turmeric (Megha Haldi 1) 61.59 q and Coriander (3.25 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 2637.91 q. The seed production of Sugarcane (572.00 q), potato (29.15 q), veg pea (2029.24 q) and onion bulb (7.30 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	9855.68	244.76	7636	1453	70
	Paddy	6038.99	155.00	6687	1319	49
	Maize	248.68	1.44	53	23	8
	Jower	57.85	1.65	40	16	7
	Bajra	187.32	4.01	76	34	11
	Barley	62.18	1.70	198	48	8
	Mandua	3.97	0.70	63	23	5
	Barnyard millet	5.72	0.90	72	23	6
	Finger Millet	5.59	0.56	68	17	5
	Other	15.45	1.17	144	59	7
	Total	16481.412	411.90	15037	3015	89



Oilseeds	Mustard	1179.46	56.89	4072	774	52
	Toria	55.07	0.58	72	30	4
	Linseed	18.48	1.32	83	29	7
	Seasum	27.48	2.30	328	66	6
	Groundnut	1.50	0.23	12	7	1
	Soybean	0.80	0.08	15	7	1
	Other	5.40	0.26	48	21	1
	Total	1288.19	61.64	4630	934	72
Pulses	Black gram	432.00	64.80		258	8
	Green Gram	930.00	139.50		143	8
	Pigeon pea	860.00	129.00		90	8
	Chick pea	1320.00	158.40		21	8
	Field pea	1580.00	158.00		130	8
	Lentil	1260.00	151.20		58	7
	Greengram-S	113.95	17.09		2	
	Total	2365.12	817.99	3907	702	89
Vegetables	Vegetable Pea	12.39	2.14	85	9	9
	Okra	4.51	0.23	140	26	3
	Suran	72.50	0.19	22	7	2
	French bean	0.06	0.01	7	4	2
	Radish	0.04	0.01	24	11	1
	Onion	24.22	0.21	41	18	3
	Chilli	19.36	0.09	114	0	4
	Other	86.42	1.10	271	28	10
	Total	219.51	3.97	704	103	34
Spices	Turmeric	61.59	1.92	143	57	9
	Coriander	3.25	0.81	0	0	2
	Fenugreek	1.28	0.06	4	0	2
	Other	0.5	0.08	17	0	1
	Total	66.62	2.88	164	57	14
Fodder/Fibre crops	Berseem	0.78	0.12	32	11	2
	Napier grass	1630.00	0.02	8	0	3
	Dhaincha	59.77	0.17	37	7	4
	Other	18.45	0.92	43	10	3
	Total	1709	1.22	120	28	12
Commercial crops	Potato	29.15	0.89	19	5	6
	Sugarcane	572.00	6.18	0	0	7
	Veg Pea	2029.24	8.51	120	20	10
	Onion bulb	7.30	0.12	36	11	3
	Other	0.22	1.22	12	0	2
	Total	2637.91	16.92	187	36	28
	Grand Total	28898.59	1316.52	24749	4875	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 2023 KVKs produced 86.29 lakh planting materials including vegetable seedlings (73.37 lakh), fruit saplings (1.21 lakh), ornamental (3.24 lakh), fodder (2.79 lakh), medicinal and aromatic (0.32 lakh), forestry (0.36 lakh) and paddy seedlings (5.00 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	73.37	24.29	22136	2253	89
Fruits	1.21	79.96	8760	959	89
Ornamental	3.24	5.85	4327	474	89
Fodder	2.79	4.16	1177	273	40
Medicinal & Aromatic	0.32	2.33	1363	69	19
Forestry/plantation	0.36	9.55	2662	666	57
Cereals (Paddy seedlings)	5.00	0.08	25	5	11
Total	86.29	126.22	40450	4699	89

6.2.1 Vegetables

KVKs produced large number of vegetable seedlings (73.37 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 1.21 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 (3.24 lakh), medicinal and aromatic (0.32 lakh), forestry plants (0.36 lakh) and fodder plants (2.80 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 in lakh)	Procured by farmers	No of Village Covered	No of KVKS
Vegetables	Brinjal	422581	3.02	2726	342	56
	Chilli	429847	3.70	3746	433	55
	Tomato	638307	5.01	4452	482	64
	Cabbage	134081	0.90	1500	152	38
	Cauliflower	286651	2.19	2864	215	48
	Broccoli	14745	0.19	492	50	16
	Capsicum	17033	0.19	604	66	16
	Onion	4960699	3.56	1315	170	36
	Cucumber	11175	0.09	444	12	18
	Bottle gourd	61166	2.59	1748	126	27
	Bitter gourd	17907	0.33	204	15	15
	Sponge gourd	42002	0.38	505	31	19
	Pumpkin	21774	0.24	609	52	19
	Knolkhole	2	0.00	1	0	1
	Marrow	50	0.00	8	0	2
	Mushroom	409	1.02	185	66	4
	Others	278505	0.88	733	41	24
	Total	7336934	24.29	22136	2253	89
Fruits	Aonla	5937.5	29.69	395	78	17
	Litchi	23087	23.09	1091	16	6
	Mango	7462	7.46	617	140	11
	Papaya	39378	1.80	1298	298	25
	Guava	2465	2.10	556	101	13
	Jack fruit	3133	1.90	678	27	8
	Beal	9080	2.40	711	63	12
	Citrus	437	0.75	265	14	6
	Lemon	1231	1.10	879	82	9
	Mausammi	1295	1.20	327	16	4
	Karonda	11450	1.30	206	19	10
	Pomegranate	312	1.50	120	12	6
	Apple	493	0.49	460	0	2
	Ber	292	0.30	164	4	6
	Jamun	4415	1.90	412	4	11
	Pear	50	0.05	0	0	0
	Kiwi	101	0.10	49	0	3
	Walnut	680	0.68	44	23	1
	Others	9313	2.15	488	62	17
	Total	120611	79.96	8760	959	89
Ornamental	Marigold	274214	3.29	731	166	26
	Rajnigandha	14	0.00	12	0	2
	Chrysanthmum	3700	0.15	21	5	7
	Rose	1560	0.52	118	64	9
	Gudhal	250	0.01	16	12	3
	Calandula	11211	0.22	21	1	8
	Vervina	1260	0.03	16	0	1
	Baugain villia	2250	0.90	2640	4	6
	Durenta Golden	1747	0.13	179	2	8
	Gladiolus	59	0.02	110	0	2
	Harshingar	10	0.01	85	0	2

	Gardia	5063	0.05	32	8	7
	Ficus benajamina	160	0.02	160	160	2
	Red erration	11	0.00	9	0	2
	Poppy	4089	0.07	6780	0	5
	Sweet William	2048	0.10	10000	0	3
	Other ornamental	2625	0.08	8000	6	11
	Others	14017	0.26	25500	46	21
	Total	324288	5.85	4327	474	89
Medicinal & Aromatic	Lemon Grass	6100	0.76	38	9	2
	Satawar	5000	0.16	5	5	0
	Turmeric	10015	1.14	61	17	3
	Others	10993	0.27	1259	38	14
	Total	32108	2.33	1363	69	19
Forestry/plantation	Poplar	3000	0.30	314	21	1
	Mahua	572	0.13	54	28	3
	Karanj	125	0.04	387	0	3
	Neem	8495	4.13	762	125	16
	Teak	4012	1.20	23	13	3
	Eucalyptus	95	0.01	3	2	3
	Saguan	2100	1.11	111	46	2
	Samel	2923	0.06	231	11	1
	Seasum	415	0.17	60	60	2
	Cajurina	19	0.01	8	0	2
	Other forestry	13814	2.39	709	360	21
	Total	35570	9.55	2662	666	57
Fodder	Napier	267607	4.09	1092	260	27
	Setaria	2500	0.00	0	0	5
	Sudax Chery	4000	0.00	10	5	1
	Others	5801	0.08	75	8	7
	Total	279908	4.16	1177	273	40
Cereals	Paddy seedling	500000	0.08	25	5	11
	Total	500000	0.08	25	5	11
	Grand Total	8629420	126.21	40450	4699	89

6.4 Production of Bio-Product

The KVKs of Uttar Pradesh produced 2915.92 quintal of bio-products which include vermi compost (2009.84 q) and NADEP compost (414.50 q). Besides,

KVKs also produced 312.35 q bio pesticides, 11.50 q bio-fungicide and 22.53 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 in lakh)	No. of farmers	No of Villages Covered	No of KVKs
Bio-fertilizer	Vermicompost	200984.02	13.18	1050	203	48
	Nadep compos	41450.00	1.25	166	51	23
	AzotoBactor	62.50	0.06	13	6	1
	P.S.B. Culture	12.00	0.00	0	0	1
	FYM	8780.00	0.34	6	5	12
	Other	5664.50	0.34	6	0	11
	Total	256953.02	15.17	1241	265	89
Bio-pesticide	Beauveriabassiana	1669.59	0.45	60	17	4
	Trichoderma Viridi	26721.39	2.34	5243	0	8
	Botanicals	2325.00	0.19	329	57	6
	Other	520.00	0.05	0	0	1
	Total	31235.98	3.03	5632	74	19



Bio-fungicide	Trichoderma harzianum	1125.00	1.58	625	0	6
	Other	25.00	0.00	0	0	0
	Total	1150.00	1.58	625	0	6
Other bio-product	Bio Agents	516.00	0.12	148	26	6
	Honey	472.00	0.54	97	3	4
	Lemon pickle	20.00	0.02	6	2	1
	Vermiculture	76.00	0.01	10	0	7
	Worms	1000.50	2.52	255	62	11
	Verns	168.50	0.29	30	0	9
	Total	2253.00	3.50	546	93	38
	Grand Total	291592.00	23.28	8044	432	89

6.5 Livestock & Fingerling Production

KVKs of Uttar Pradesh produced 146.62 lakh livestock strains including 712 dairy animals including cows, buffaloes, calves, goat etc by 11 KVKs; poultry

(8398) including broilers, layers, duals, ducks etc by 13 KVKs; piglets (10) and fisheries (146.53 lakh) by 4 and 43 KVKs respectively. 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 in lakh)	No. of farmers	Villages Covered	No of KVKs
Dairy animals	Cows	54	27.00	2	2	25
	Buffaloes	4	4.50	2	0	3
	Calves	31	12.40	4	0	5
	Goat	170	25.50	85	35	12
	Others	453	2.17	8	5	3
	Total	712	71.57	101	42	48
Poultry	Broilers	704	2.05	274	14	12
	Layers	757	4.11	304	6	19
	Duals (Broiler & Layer)	3600	2.10	57	30	12
	Ducks	104	0.31	37	6	7
	Others	3233	0.90	127	7	14
	Total	8398	9.46	799	63	64
Piggery	Piglets	10	0.80	8	2	4
	Total	10	0.80	8	2	4
Fisheries	Indian carp	13897441	10.57	626	38	22
	Exotic carp	750147	2.90	62	0	11
	Others	5452	3.11	311	16	10
	Total	14653040	16.57	999	54	43
	Grand Total	14662160	98.39	1907	161	64

Case Studies/Success Stories

7.1 Popularization of Greengram variety - VIRAT

Name of farmer: Heera Singh

Village Todapur,

Block Atrauli

District Aligarh

Introduction: The farmers of district Aligarh grow the local variety of mungbean RMG 975 which gave low yield. Among several yield limiting factors poor availability of quality seeds of improved variety of mungbean is predominant. Heera Singh is a progressive farmer of village Todapur of block Atrauli, district Aligarh was selected for the demonstration of improved variety Virat of mungbean.

KVK Intervention: KVK Aligarh tries to make them aware regarding scientific cultivation of mungbean starts from land preparation to harvesting. 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 **VIRAT**. The crop was sown in line and fertilizer application was done with basal application.

Output:- Mr. HEERA Singh adopted the balanced dose of chemical, fertilizer (N:P:K:Zn::20:40:20:25) kg/ha in mungbean as demonstrated by KVK scientist for his 0.50 ha area. He fetched about 12.5 q/ha yield with improved variety Virat with recommended technology in comparison to local variety which gave only 8.5 q/ha yield. The yield increased by 40.0% over local variety. The economic gain in terms of per unit expenditure, gross income, net return and BCR are recorded which was Rs. 36500, Rs. 100800, Rs. 64300.

Outcome: Mungbean is the major pulse of the district. KVK Aligarh conducted 250 demonstrations in 10 villages during 2018-19 to 2022-23 in an area of 120.00 ha at farmer's field with improved variety Virat alongwith balanced dose of fertilizers

(N:P:K:Zn::20:40:20:25) kg/ha. Now this variety has been disseminated in 80 villages of the district in area of approximately 400 ha. The outcome of this demonstration motivated the farming communities to replace their old varieties and non-descriptive varieties. Heera Singh is happy on improvement in their income, livelihood and set forth example to others.

Impact:- Mr. Heera Singh become one of the progressive and learned farmers for others with regards to popularization of mungbean variety Virat. 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. Mr. Heera Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.



Old Variety of green gram



Green gram variety (Virat)

7.2 Chick pea RVG-202 variety has been found suitable under rice-wheat cropping system.



Name of farmer: Mr. Haribansh Singh
Village Adamur Tindauli
Block Katehari
District Ambedkar Nagar

Introduction: Mr. Haribansh Singh is a progressive farmer of village Adamur Tindauli of block Katehari, district Ambedkar Nagar. He was selected for the demonstration of improved variety RVG 202 of chickpea. Earlier he grows local variety of chick pea which gave less yield.

KVK Intervention: KVK Ambedkar Nagar tried to make them aware regarding after rice cultivation of chickpea from land preparation to harvesting. KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for application of balanced dose of fertilizer with improved varieties. Chick pea (RVG-202) was sown on 08-11-2022 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 irrigation.

Output: Mr. Haribansh Singh adopted the balanced dose of chemical fertilizer (N:P:K:S::40:60:40:30) kg/ha in chick pea as per suggestion of KVK's scientist. He got 17.67 q yield/ha with recommended technology which was 28.51% higher over local variety of chickpea where it was obtained 13.75 q /ha. The economical gain in terms of per unit expenditure, gross income, net return and BC ratio are recorded which were Rs. 46659, Rs. 58784, Rs. 51965 and 2.90 respectively.

Outcome: Chick pea is the main pulse crop of the district. KVK Ambedkar Nagar conducted 85 demonstrations in 05 villages during 2022-23 in an area of 25.00 ha at farmers' field with using improved variety RVG-202 and balanced dose of chemical fertilizer kg/ha. This variety has been disseminated in 20 villages of the district in area of approximately 30 ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Haribansh Singh is very happy on improvement in his income, livelihood and set forth example for others.



Chick pea Crop Var. RVG-202

Impact: Mr. Haribansh Singh has become one of the progressive and learned farmers for others with regards to popularization of RVG-202. 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. Haribansh Singh is very happy with this improved production and management technology and set an example for other farmers of the district.

7.3 Fish cum poultry farming a good source of income & employment



Name of farmer: Sri Anand Singh
Village Sangrampur
Block Akbarpur
District Ambedkar Nagar

Introduction: Sri Anand Singh s/o Ram Keval Singh of Village Sangrampur of block Akbarpur district Ambedkar Nagar is 29 years old with graduate is a progressive farmer. He has only one hectare land holding. He cultivated rice, wheat and Sugarcane. He faced poor production which was not sufficient for his 8 member family needs.

KVK interventions: KVK, Ambedkar Nagar imparted capacity building training programme on poultry and fish farming during June to July, 2021. Mr. Anand Singh participated and he acquired the knowledge and skills on poultry and integrated fish farming. After that of he started large scale poultry farming fish farming as an enterprise in guidance of KVK Scientist. He established 3000 birds capacity well developed poultry farm and his net income from poultry was Rs. 30000-40000 per month. He

developed half acre ponds by MANREGA and started fish farming with poultry farm and utilizes the 50 % poultry manure instead of animal dung/manure for fertilization of fish ponds. Poultry farming of 3000 broiler birds integrated along with fish farming made better utilization of resources, substantially with proper nutrition, diseases control and management provided more profitable income.

Output: The total annual cost of Rs 15000 poultry birds (3000 birds/ batch of 5 batch/year) to gain av. wt 2kg./bird @Rs.140/birds = Rs.21,00,000/. The Av. Income by selling of Rs 14700 bird (2% mortality) @ av.Rs.170/bird of 2kg was Rs. 24,99,000/. The Av. Profit / year of 5 batch from selling of 14700 ready poultry birds = 3,99,000/. Besides this he gets Rs. 22,500/- by poultry manure (15q @ Rs.1500). The total annual income from poultry farm was Rs. 421500. In case of fish farming the total annual cost of in one acre ponds of 3500 fish /year to gain av. wt 1.15 kg./fish @Rs.100/fish is Rs.350000 and average income is Rs. 631120 by selling of 3430 fish (2% mortality) @ Rs.160/kg. The total net profit per year of from selling of fish is Rs. 281120.

Outcome: The total annual income from integrated farming of poultry and fish ranges Rs. 702500/- to 815386/- per year

Impact- Mr. Anand Singh has become one of the progressive and learned farmers for others with regards to popularization of poultry cum fish farming. This technology helps him for livelihood security and empowerment. Now this technology is adopted by more than 5 farmers. They 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. Anand Singh is satisfied from his poultry cum fish farming business and his income increased three times which improved his livelihood security and set forth example for others farmers.

7.4 Entrepreneurship development through quality seed production



Name of farmer: Shri Ashok Singh
S/o Shri Ramgopal
Village Gureh
Block: Badhokhar khurd
District: Banda
Mobile: 7388015968

Introduction: Shri Ashok Singh, S/o Shri Ramgopal resident of village Gureh, Block: Badhokhar khurd, district: Banda, was earlier involved with traditional agriculture. He grow blackgram, wheat and pigeonpea in his 07 ha of Land. Due to unavailability of quality seed improved varieties the productivity of major crops was very less. He was getting net profit of Rs. 2.50 lakh per year with BCR of 2.26 during 2017-18.

Plan, Implement and Support: - Mr. Singh shared his concern in seed production, therefore he has been selected for farmer's participatory seed production scheme of seed hub by KVK, Banda. He got training on different aspect of seed production of pulse crops. During 2022-23 he grew different seeds like gram (JG-36) in 4.0 ha, field pea and lentil (IPL-321) in 3.0 ha of land respectively.

Output:- Mr. Ashok Singh, adopted all the aspect of seed production in his farm since last 3 years. This year he produced quality seed of gram (42.67q) and lentil (31.35q) and supplied this seed to seed hub. He has got more economical gain in terms of net return of Rs. 3.80 lakh with BC ratio of 3.30.

Outcome:- With the benefit of 20% bonus of seed hub scheme, his net income is increased to 20-25%. The crop yield is also increased by 15-20 % with use of quality seed of improved varieties of pulse crop. The seed replacement rate of his village has also enhanced. He is solving the need of improved variety seed of farmers of his and neighbouring village.

Impact:- 35-50 farmers are continuously interacting with Mr Ashok and getting advice on different aspects of seed production of pulses. Many farmers are frequently visiting his farm and adopting the packages of practices followed by Mr. Ashok at his field. He is one of the progressive farmers of Banda district in seed production area.



Distribution of Agri-inputs



Lentil crop at farmers' field

7.5 Popularization of spring Black gram cultivation in mustard fallow fields

Name of farmer: Sri Chhatra Pal
Village Panua
Block: Navabganj
District Bareilly

Introduction: Sri Chhatra Pal is a small farmer with small family and adopts rice-based farming system having well irrigated land and adopts crop rotation Rice- Mustard/ Rice-Wheat- Sugarcane. Shri Chhatra Pal belongs to Panua village of Navabganj block in Bareilly. He was selected for cultivation of summer black gram in 2023. He was selected for this demonstration because he was leaving the field fallow in summer season.

Plan, implements and support: KVK Bareilly motivated him to grow spring black gram under rice-mustard cropping system with minimum irrigation and obtain an addition income from the field. For this KVK demonstrated good quality seed of black gram variety Pant Urd -12 and suggested the recommended dose of fertilizers as per soil test basis and others inputs like pendimethalin and insecticides.

Output: Shri Chhatra pal adopted cultivation of black gram in spring & remained in touch with KVK for technical support. As a result, the vegetative performance and fruiting of pods in the crops was good. He is now encouraging other villagers and popularizing cultivation of black gram in the village for additional income by sowing black gram in between the gap of harvesting of mustard and rice crops.

Outcome: Area under spring season black gram was 60.00 ha from which he obtained production of 124 M.T and productivity was 7.59 q/ha which was very low due to use of unidentified & traditional varieties of black gram. KVK Bareilly has taken initiative to popularize latest improved variety of black gram Pant Urd-12 under demonstration to increase area & productivity under spring cultivation of black gram for an income enhancement. In demonstration 14.47 q/ha yield was obtained.

Impact

Now, many other farmers in the village have started urdbean practices as adopted by Shri Chhatra Pal after he received good crop of spring black gram under rice-mustard cropping system.

7.6 Improved pig farming for higher remuneration and prosperity

Name of farmer: Shri Valmiki
Village-Satuiya Khurd,
Block Nawabganj,
District: Bareilly.

Introduction: Mr. Ram pal, 37 year old rural youth of Valmiki community is a resident of Village-Satuiya Khurd, Nawabganj, Bareilly. Like other youths in his village, he studied upto 10th class and after that left school and started assisting his father in the traditional pig farming business. He recalls that earlier his father used to rear desi pigs (Gurrah) which were left on scavenging during daytime and his work was to catch and bring them back home in evening. He informed that at that time his father used to rear 10-15 local pigs at a time (which takes almost a year to attain 50-60 kg body weight) from which his father was able to earn Rs.40,000/annum (approx.). After the demise of his father in 2018, he continued his father's work for some time but realized that the work is not much remunerative due to low production/productivity, high incidence of disease and difficulty faced in daily management of pigs left on scavenging. Therefore, He thought to start the business again following the scientific pig farming practices. During interaction with KVK experts in Kisan Mela-2022 he expressed his desires to start pig farming in scientific manner.

KVK intervention : KVK imparted 04 days training on pig management in Nov. 2022 and this helped him acquire skills for scientific pig management. After the training, KVK encouraged him and provided constant technical and logistic supports for construction of pig shed, selection of breed, care and management of piglets, breeding plan and disease management. KVK experts also advised him regarding the procurement of various inputs, strategy for marketing and sale of pig and linked him with other successful pig farmers. KVK also provided critical inputs such as grower feed and conducted field visits from time to time under the institute Scheduled Castes Sub Plan (SCSP) project.

Output : He sold his local pigs and used the money to purchase 1 Bigha land in his village for establishment of pig breeding cum fattening farm. As per the guidance of KVK, he constructed five pig shed (10x12 ft) with 8 ft covered and 4 ft open area for rearing of breeding stock at the cost of Rs. 79600/- and purchased 02 pregnant gilt (01 year old), 03 growing gilts (6 months) and 01 Boar (6 months) of Large White Yorkshire for breeding at the cost of Rs. 75000/-. In view of the requirement for housing of growing piglets, he spent Rs. 78900/- for

construction of 12x25 ft size shed with 15 ft covered and 10 ft open area well in advance.

Mr. Rampal provides commercial feed to pigs based on their nutritional requirement at different stages. Understanding the importance of waste management, he dug 20ft x 20ft area to collect the runoff water containing the pig farm waste and purchased 1000 fish fingerlings at the cost of Rs. 3000/- for rearing in the collected water. This helped him save the cost of fish feed and generate additional income. He has also constructed 25ft x12 ft shed for rearing 200 improved rural poultry at the cost of Rs. 15000/-. He vaccinates the pigs as per schedule, performs deworming in consultation with KVK experts. He also takes proper bio-security measures to prevent infection at his farm and maintains all the necessary farm records as per his requirement.

Outcome: In the year 2023, he was able to produce 45 large white Yorkshire finished Pig yielding 44.5 Quintal live weight, which he sold @ Rs 170/ Kg Live weight. The gross income and net income from Pig enterprise was Rs. 7, 56, 500/- and Rs.3, 37, 000/- respectively. In addition to this, he was able to produce 2.7 Quintal fish which he sold @ Rs. 100/ kg and earned net income of Rs.18, 900/-. Further, backyard farming of improved Rhode Island Red (RIR) and CARI Shyama birds helped him earn Rs. 37, 500/- from the sale of eggs and birds.

Impact : The Large White Yorkshire pigs at his farm attained on an average 99 ± 3 kg at 7 month age. Adoption of well planned breeding strategy and best management practices allowed him to expect production of 80 ± 10 finished pig/ year, thus helping him to utilize the available space and resources most efficiently. The sows at his farm on an average produced 2.2 ± 0.17 litter/ year with an average litter size 9.98 ± 0.14 . Further, construction of proper Pig housing facility helped him manage his farm operations easily and efficiently. Utilization of the pig waste for fish feed helped him to generate wealth from waste. Moreover, the clean pig production technology allowed him to get easy access to the good market rate @ Rs. 170/ kg. All these helped him to gain income and recognition in his village. He is now serving as farmer change agent for KVK, IVRI and motivating others community members to come forward and start the animal husbandry practices on scientific lines to reap greater returns.

7.7 Bee Keeping for extra income generation



Name of farmer: Dinesh Kumar Verma

Village: Charthi Bhatt

Block: Vikramjot

District: Basti

Introduction: Dinesh Kumar Verma, village Charthi Bhatt, Vikramjot block, district Basti is 33 years old rural youth belongs to a very poor family. He has 1.0 acre land holding and 6 members in his family. He has no extra income source, so he could not be able to support easily to his family. Beekeeping is a domestic small enterprise in eastern region of Uttar Pradesh and marginal and landless farmers, women laborers and unemployed youth can get more benefits in less time with this enterprise. The weather of eastern Uttar Pradesh is favorable for beekeeping, so here there are wide possibilities of honey production due to the year round cultivation of many agricultural and horticultural crops by bee keepers. Keeping this scenario in mind, KVK scientists promoted bee keeping in the district through various

extension modules. This business benefits beekeepers throughout the year by marketing honey wax, royal jelly, propolis pollen, bee venom, bee lineage etc. and indirectly through pollination, the production of quality crops and seeds also increases.

KVK Intervention: He came in contact with Krishi Vigyan Kendra, Basti in 2016. Scientists of KVK Basti suggested him to take part in training on beekeeping. He learned technique and skill of bee keeping through training and demonstration at KVK Basti to generate more income for support his family. He started bee keeping in 2016 with investment of Rs. 20,000.00 with 10 boxes.

Output: He continuously got consultancy and made touch with scientist of Krishi Vigyan Kendra, Basti. Then he started bee keeping with 10 Bee boxes and he purchased some colony from his own source.

Outcome: He started bee keeping with 10 boxes in year 2016 and got Rs. 12,000.00 in first year. He achieved the confidence and established entrepreneur with a net annual income of about Rs. 1,20,000.00 with 40 boxes.

Economic Return of Honey bee boxes

Year	No. of Boxes	Yield (kg)	Rate (Rs)	Gross Return (Rs)	Rearing Cost (Rs)	Net Return (Rs)	B:C ratio
2016	10	200	200	40000	28000	12000	1.43
2017	15	270	230	62100	34500	27600	1.80
2018	20	360	250	90000	40000	50000	2.25
2019	30	540	275	148500	62000	86500	2.40
2020	35	630	300	189000	79000	110000	2.39
2021	40	720	310	223200	96000	127200	2.33

Impact: He is an example for the unemployed youth and landless farmers. Ultimately as a result he got several awards like Farm a Food Award 2016 & 2021 etc. The success of Dinesh Kumar Verma landmark in the field of Bee Keeping and by looking at other 34 farmers adopted the Bee Keeping as significant enterprise in the nearby area in Distt. Basti.





7.8 Basmati rice variety Pusa Basmati 1692 has become popular amongst farmers

Introduction: Pusa Basmati 1692 is developed by the IARI New Delhi and released in the year 2021. It is an early maturing Basmati rice variety with a seed to seed maturity of 110-115 days with high yield potential (73.0 q/ha). It possesses semi-dwarf, non-lodging and non-shattering habit.

KVK intervention: The area under paddy is about 53,000 ha in district Bijnor, out of that about 35,000 ha area under scented rice. Commonly grown scented rice varieties in the district are Pusa Basmati-1, Pusa Basmati-1121 and Sarabati (Non identified and locally grown large scale). **Pusa Basmati 1692** variety was developed and released by IARI, New Delhi during 2021 and was introduced and demonstrated by KVK Bijnor during Kharif 2021 at 05 Farmers field and in Kharif 2022 at 25 farmers field also.

Output: The average yield at farmers field was 56.50 qt per ha (62.50 q maximum yield per ha.) with cost of cultivation of Rs. 44920/ha. The average net profit per ha was recorded Rs. 127455/ ha. Due to semi-dwarf plant stature the lodging in Pusa Basmati 1692 is none in comparison to pusa-1121 (12-17%). Early maturing (112-115 day crop duration), Disease incidence in PB-1692 is not seen while it is about 15-25% in Pusa-1121.

Outcome: This technology has found in increasing seed replacement ratio in district with extra net return. Due to higher demand of seeds of this variety emerged an entrepreneurship programme of seed production at farmer's field for better income.

Impact: The area under this variety has now spread to more than 3800 ha in just three year. Farmers are all satisfied with the yield of this variety and also claim that it is free from most of the disease. This variety increased seed replacement rate about 25 to 30 % in operational area of KVK and also emerged entrepreneurs of seed production of this variety. The successful farmer is Sri Rituraj Singh Village – Umari, Block – Nehtor.



7.9 Mushroom : A popular & valuable food



Name of farmer: Mr. Arvind Kushwaha,
B. Tech. (Mechanical Engg)

Village Gaura Khas

Block: Jakhania

Mobile: 6387260207

District Ghazipur

Introduction: 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.

KVK Intervention: Mr. Arvind Kushwaha (42), B. Tech. (Mechanical Engg) has been involved for mushroom production from last two years. He resides at Gaura Khas village of Jakhania block (Mobile: 6387260207) in Ghazipur district. Before starting mushroom cultivation, he was contractor of Air Conditioner and selling air conditioner in Delhi area. But he faced loss in his business during corona pandemic period. Then he thought of doing something new independently at his native place and returned to his village. One day he visited Krishi Vigyan Kendra, P.G College, Ghazipur and met with SMS plant protection Dr. Omkar Singh. During the meeting Dr. Omkar Singh motivated Mr. Arvind Kushwaha to start mushroom cultivation at his own farm. There after Mr. Arvind Kushwaha attended four-day training on mushroom cultivation at Krishi Vigyan Kendra, P.G College, Ghazipur in 2020. And he learned all practical tactics at KVK, Ghazipur. After completing the training, he established his mushroom production unit at his residence. Initially, he started producing button mushroom in small scale by getting spawn from KVK, PG College Ghazipur. Later he established his controlled condition (fully air condition) mushroom production unit in a bigger way by utilizing his previous skill and experience being a mechanical engineer.

Outcome: Initially he used to produce 120 kg of mushroom in a season (uncontrolled condition). After training and technical support from Krishi Vigyan Kendra, P.G College, Ghazipur, he is now producing 5-6 quintals of mushroom per crop and 7-8 crops per year (total 42 quintals in controlled condition). Now he is selling fresh mushroom both locally and sending to nearby districts i.e. Azamgarh,

Varanasi, Mau, Chandauli etc. He is also producing oyster mushroom.

Impact: Now he has started to sell fresh mushroom in different mela organized by Government Organizations and NGO's. He started to give trainings to different SHG's members and farmers. After getting training from him, 5-6 members have also started producing mushroom in a small scale.

Economic gains: By selling mushroom he is getting an income of Rs 504000 to 525000/year. He also created employment opportunity to 2-3 rural youth. In future, he is planning to start value addition in terms of dried mushroom powder and other value added products. After getting training from KVK and utilizing his skill now he has become entrepreneur and mushroom production is the main source of income to his family.

Production and Income Details Before and after training programme

	Year	Mushroom Production (kg)	Annual Income (Rs)	Net Return (Rs)	B:C Ratio
First Year (Uncontrolled)	2020-21	120	15600	6400	1.69
Second Year (Controlled)	2021-22	4200	504000	332000	2.93
Third year	2022-23	4508	564150	348500	3.10



7.10 Off season vegetables under protected cultivation and banana crop for enhancing income



Name of farmer: Shri Ramji Dubey

Village: Nuaon

District: Mirzapur

Introduction: Shri Ramji Dubey of Village Nuaon of District Mirzapur used to grow paddy, wheat and mustard as the usual crops like other farmers, complained of the reduction in income from

the enterprise every passing year. After consultation with the KVK scientists and SMSs in the field, he decided to transform the face of his enterprise. He studied the market and came to the conclusion that considering his capabilities and resources, off-season cultivation of vegetables and plantation of Grand Naine (G-9) banana with micro irrigation systems could be rewarding for him. He went ahead with the implementation of his idea.

KVK intervention: When Mr. Dubey exchanged his ideas with the SMSs of KVK, he was advised to choose Grand Nain (G-9) cultivar of banana for plantation and cucumber (*kheera*) and muskmelon for off-season vegetable crop. He was provided with all the technical input by the KVK in order to convert his idea into practice.

Output: With conventional farming practices, Mr. Dubey was earning Rs. 150000-17000/- annually in 2020 and with his idea of protected cultivation of cucumber and muskmelon and plantation of banana he has recorded an earning of Rs. 468500/- during the year 2022, a handsome over 271% increase in his income.

Outcome: Mr. Ramji Dubey with his success in the enterprise has inspired several youth and farmers who believe in experimentation and are keen to take calculated risks for their income enhancement. More people are now contacting KVK with novel ideas to raise the productivity of their farms.

Impact: The departments of agriculture and horticulture have contributed to his success and now Mr. Ramji Dubey is inspiring to people of even rainfed areas of the district to grow banana with micro irrigation systems and some of the farmers have started their attempts in this direction.

7.11 Intercropping of cowpea in sugarcane for enriching soil health and farm income



Name of farmer: Ankit Beniwal

Village: Nagala Mubarik, Post Kawal

Block: Jansath

Distt: Muzaffarnagar

Mobile: 8077552586

Introduction: Intercropping of crop is a viable option to improve farmer's income as well as soil health with lesser cost of cultivation. So, Sugarcane + cowpea (1:1) is an important intercropping system which is really beneficial to the farmers during spring season.

KVK intervention: Krishi Vigyan Kendra, Chittora has introduced Intercropping of sugarcane + Lobiawith an aim of higher income and improves soil health. KVK also motivates farmer for adoption of intercrop through trainings and demonstrations at farmer's field.

Particulars	Yield (q/acre)	Gross Cost (Rs/acre)	Gross Return (Rs/acre)	Net Return (Rs/acre)	B:C Ratio
Improved practice (Intercropping of sugarcane + cowpea)	600	60000	220000	160000	2.66
Existing practice (sole sugarcane)	520	56000	182000	126000	2.25

Outcome: The highest sugarcane yield (600 q/acre) was obtained with sugarcane + Lobia intercropping as compared to sole crop of sugarcane (540 q/acre). It significantly showed that net return



and B: C ratio of sugarcane + Lobia is higher than sole crop of sugarcane.

Impact: Intercropping of sugarcane + cowpea (1:1) significantly enhanced the farmer income and also improved soil health due to added organic matter and root exudation of lobia. It showed that almost 21% more net return was obtained with Intercropping of sugarcane + Lobia as compared to sole crop of sugarcane.



7.12 Improved Broiler Farming for sustainable income generation



Name of farmer: Shivam Kumar
S/o Dharmender Singh,
Village- Madhwamai
Post- Ghusgaw
Block-Dadrol
District- Shahjahanpur
Mobile: 7807822303

Situation analysis/ Problem statements:- Mr. Shivam Kumar S/o Dharmender Singh, village-Madhwamai, Post- Ghusgaw , Block-Dadrol, District-Shahjahanpur (Mobile: 7807822303), a farmer who was selected for this demonstration. He was earlier involved in poultry farming but specially in laying birds for egg production. He had reared local breed Rhode Island Red. But due to disease outbreak most of the birds were died that led to heavy economic losses.

Plan, Implementation and Support:- KVK Shahjahanpur tried to provide technical know-how regarding the improved broiler poultry farming which starts from cleaning and hygienic conditions of the poultry house. KVK scientist has encouraged the farmer for improved feeding, vaccination of birds, antibiotic feeding in feed or water which necessary to check the incidence of outbreak of diseases. Use various feed equipments for feeding and watering to the poultry birds and other implements required for cleaning and handling purpose. Weighing balance should be kept in poultry house to weigh the birds to know the growth rate and body weight gain of the birds.

Output:- The poultry outputs are all the products and byproducts that your poultry farm produces and you sell as a product. This includes chicks, manure (fertilizer), feathers (manufacture), spent hens (alternative meat source), and gunny bags (recycling to the construction industry). Keep a constant eye on the prevailing market prices and consumer expectations.

Outcome:- Outcomes are an animal-based method of assessing factors that contribute to an animal's quality of welfare. Regularly scoring appropriate outcome measures can identify welfare problems and be used to set targets or benchmark for improvements through an active programme.

Impact:- Mr. Shivam Kumar is becoming one of the progressive farmers for other with regards to popularization of broiler poultry farming. This farming helps him to increase his livelihood, empowerment and make him enthusiastic regards broiler production. He becomes a progressive farmer after joining the trainings that are conducted at KVK regarding organized poultry farming and as a part of KVK activities & improves their effectiveness and management technologies and set an example to other farmers of the districts of Shahjahanpur.



7.13 Income generation through cultivation of Flower in Poly house

Name of farmer: Er. Asif Aziz Siddquii

Village: Nadai Deeh

Block: Jamunaha

District: Shravasti

Situation analysis/ Problem statements: - Er. Asif Aziz Siddquii, village Nadai Deeh, block: Jamunaha, district: Shravasti. He was earlier involved with production of rice and wheat crop only.

Plan, Implement and Support: - KVK Shravasti tried to provide technical know-how regarding improved cultivation of flower in poly house. (Jarvera - Red, White and Yellow). KVK encouraged the farmer for soil testing and on the basis of that farmer was advised for valuable and recommendation dose of fertilizer.

Output:- Er. Asif Aziz Siddquii adopted the poly house and recommendation of nutrient dose as per suggestion of KVK scientist for his 1.0 ha area. Varieties of Jarvera (Red, White and Yellow) and the increased income by 60%. The economical expenditure and annual net return are recorded as Rs.145320 /-

Outcome:- Flower is the district the outcome of this demonstration motivated the farming communities to replace their rice- wheat croppings. Mr. Jagdev is very happy on improvement in their income, livelihood and set forth example for others.

Impact:- Mr. Arif Siddki is becoming one of the progressive and learned farmers for others with regards to popularization. This technology helps him for livelihood, empowerment and make him enthusiastic regards flower 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. Arif Siddki is very happy with this improved production and management technology and set forth example for other farmers of the district.

7.14 Enhancing income through rearing of Murrah Buffaloes



Name of farmer: Mr. Virendra Verma

Village: Pasna,

Block: Akhandnager

District: Sultanpur

Mobile: 9793644185

Introduction: Mr. Virendra Verma, Village -Pasna, Block- Akhandnager District- Sultanpur (Mobile: 9793644185) a farmer who was selected for this demonstration. Virendra Verma earlier involved in rearing of local and indigenous cattle for dairy purpose but due to low milk yield dairy farming was not profitable to him.

KVK Intervention: Mr. Verma is energetic and active to do any work in village regarding income generation and employment solution. He decided to generate self-employment enterprise specially Animal Husbandry initially he domesticated 01 cow, 01 buffalo and 02 heifer. Buffalo is giving milk 06 liter milk per day and cow is in gestation. Before he made contact several time with the scientist of KVK-1 Sultanpur for establishment of income generation enterprise and during training programme he willingly involve in programme to learn every step of Animal Husbandry for income generation and expenditure of the enterprise. Main concern was the fund management for the enterprise, quality breed, knowledge & skill, disease management regarding



Animal Husbandry. KVK Scientist suggested him for rearing of Murrah Buffaloes for dairy purpose and provided him all types of supported like- training, direct linked with Veterinary department for government scheme and always provided technical support.

Output: Mr. Verma established Murrah buffaloes unit after training and expresses his view to invest some money for getting family employment and income throughout the year. Mr. Verma is having 55 Murrah Buffalos, 18 buffalo calves. Now the average daily milk production is around 350 lit. He is selling milk @ Rs.40/litre and also value addition of milk and produces Khoa, Paneer which is selling @ Rs.250-300/kg in Sultanpur city. He is earning annual average income of Rs. 1950000/year.

Outcome: In Sultanpur district many farmers started dairy farming with local cattle after some days running, most of the dairy was closed due to low milk yield and high cost of feeding and maintenance which was not economical and feasible .At present time more than 40 % farmers in sultanpur district rearing one or two Murrah buffaloes at home .Those farmer who is interested for dairy farming they also selecting Murrah Buffaloes breed. Those farmers who are stared dairy with Murrah Buffaloes at present time they are self-employed and earning more income. Mr. Verma set an example for other farmers in Sultanpur district.

Impact: Dairy as enterprise for complementary in agribusiness for increasing source of income will take 2-3 year to become as beneficial enterprise and main source of income for rural youth. It also helps to reduce migration of rural youth from village. Mr. Verma is becoming one of the Progressive and learned farmer for other with regards to popularization of Murrah Buffaloes in Sultanpur district. After starting dairy with Murrah Buffaloes milk production increases day by day, at that time



he is processing milk and making Khoa and Paneer. Mr. Verma along with his three brothers also self-employment generated in dairy. Mr. Verma is very happy with dairy entrepreneurship and he set an example for other farmers in Sultanpur district.

7.15 Integrated Farming System (IFS) Model-I



Name of farmer: Md. Nasir Raja Khan

Village Chunauti,

Block Hasanganj,

District Unnao

Mobile: 9695710822

Introduction: Md. Nasir Raja Khan of village Chunauti, Block Hasanganj, District Unnao (mobile: 9695710822) having 5 acre area. It was low productivity land due to alkaline soil (more than 9.0 pH) and having limited alternative of crop production viz. Paddy and Wheat. He contacted and visited IFS Model at KVK, Unnao and interacted with SMSs of KVK. SMSs of KVK are also visited at farmer field and suggested about adopting this model.

Plan, Implement and Support: SMSs of KVK after visiting the farmer field suggested for a ponds in low land area. The soil dug may be utilized as filling to raise the level of other land or area. Other area without pond will facilitate to establish other components of IFS related activities. Training imparted on Fish farming at KVK, which helped him in successfully raising the fish pond. He was also suggested to establish a duck and poultry rearing unit besides of the fish pond. He took training on dairy, goat farming, poultry, crop production and horticulture from KVK, Unnao and added these units at his field. KVK, Unnao supported to him by providing technical, seed and planting materials, suitable breed of dairy animals, goat, poultry and facilitated exposure visits. SMSs of KVK were visited regularly and suggestion for further improvement paved the way of his success.

Output: Khan Ji has developed the IFS Model in such a way that approximately every components of the Model is supplementing to other component in the system and this has helped him in reducing the cost of production and maximizing the returns.

Size and Average Production of various components

Component	Breed/ Variety	Number/ Area	Average Yield	Feed/Nutrient Management
Dairy (Buffalo)	Murrah	2	1620 kg/lactation	Straw, Concentrate and green fodders viz. berseem, napier, sorghum and MP Chari
Goat	Barberry	5	34 kg/animal	Straw, grass, Berseem, leaves of fruit, vegetables & trees, concentrate & green fodders
Poultry	Kadaknath and Sonali	20	180 eggs/bird	Wheat bran, farm waste
Duck	Khaki Campvill & Mixed	15	170 eggs/duck	Farm waste and feeding from fishpond
Fisheries	Rohu, Katla and Grass carp	40000 fingerling	4000 kg/acre	Farm/Dairy/Poultry/Duck waste and concentrate mixture
Banana	Local and G9	100 plants	4000 kg/year	Manure from dairy and irrigation from pond water
Mango	Dasehari and Amrapali	100 plants	20000 kg/year	Manure from dairy and irrigation from pond water
Crop production	Wheat, Paddy and Maize	2 acres	4500 kg/acre	Manure from livestock and poultry, farm waste, vermicompost and DAP/Urea
Fodder	Napier, Sorghum, MP Chari, Berseem & Maize	1 acre	65000 kg/year	Manure from livestock and poultry, farm waste, vermicompost and DAP/Urea

Annual Average return from various Components of IFS Model

Units	Cost of production (Rs.)	Gross Return (Rs.)	Net Return (Rs.)	Benefit Cost Ratio
Dairy	81648.00	194800.00	113152	2.38
Goat	30600.00	76500.00	45900	2.5
Poultry	12600.00	36000.00	23400	2.85
Duck	3060.00	15300.00	12240	5.00
Fishery	123200.00	440000.00	316800	3.57
Banana	12500.00	58815.00	46315	4.85
Mango	55600.00	245000.00	189400	4.41
Crops	203000.00	362500.00	159500	1.78
Total	522208.00	1428915.00	906707	2.73

Outcome: After establishment of IFS model income has more than two times and his success encouraged other farmers of the district and many more farmers are adopting the model. 10 farmers want to establish various types of IFS models after visiting IFS model of the farmer.



7.16 Climate Resilient Integrated Farming System has proved the way for regular income generation



Name of farmer: Sri Kamlesh Singh
S/o Lt. Surya Narayan Singh

Village: Kallipur

Block: Arajiline

District: Varanasi

Mobile: 9794894815

Situation analysis/problem statements

Sri Kamlesh Singh, village Kallipur,, block Arajiline having 8 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 Singh 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 Kamlesh Singh 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. KrishiVigyan Kendra Varanasi scientists visited time to time on Sri Kamlesh Singh's 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 care of animals.

Outputs

Sri Kamlesh Singh 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)	Cost of cultivation (Rs./acre)	Total cost of cultivation (Rs.)	Total Production (qt.)	Total income (Rs.)	Net return (Rs.)	B:C Ratio
Kharif crops								
1	Paddy	4	28200	112800	80	153600	40800	1.63
2	Maize	0.5	16000	8000	9.75	18038	10038	2.25
3	Urd	1	12120	12120	3.50	22750	10630	1.88
4	Til	1.25	7840	9800	3.25	19500	9700	1.99
5	Arhar	0.25	13520	3380	2.50	15000	11620	4.44
6	Sugarcane	0.5	44800	22400	110.00	37400	15000	1.67
7	Bitter gourd	0.25	26200	6550	30.00	28500	21950	4.35
8	Sponge gourd	0.25	27000	6750	35.00	35000	28250	5.19
Rabi crops								
9	Wheat	5	26800	134000	105.00	231000	97000	1.72
10	Mustard	0.25	14600	3650	2.20	11000	7350	3.01
11	Potato	0.25	62800	15700	45.00	38250	22550	2.44
12	Veg. Pea	1	28000	28000	8.50	46750	18750	1.67
13	Cauliflower	0.25	25600	6400	21.50	21500	15100	3.36
14	Onion	0.25	48000	12000	17.00	27200	15200	2.27
15	Brinjal	0.25	22800	5700	22.00	24200	18500	4.25
16	Garlic	0.25	34400	8600	5.20	26000	17400	3.02
	Total			395850.00		755688.00	359838.00	

Economics of Orchard

Sl. No.	Fruit plant	Area (acre)	Operational Cost (Rs./ha)	Total income (Rs.)	Net income (Rs.)	B:C ratio
1	Mango	2.50	68500	122000	53500	1.78
2	Guava					
3	Lemon					
4	Maringa					
	Total		68500	122000	53500	

Economics of Animal Husbandry

Sl. No.	Animals	Numbers	Operational Cost (Rs.)	Total income from milk (Rs.)	Net income (Rs.)	B:C ratio
1	Buffalos	2	180000	374400	194400	2.08
2	Cow	1	60000	115200	55200	1.92
		Total	240000	489600	249600	



Economics of IFS system

Total cost per year : Rs. 704350/-

Total average income per year : Rs. 1367288/-

Average income per year : Rs. 662938/-

**Chapter-8****Publications and HRD**

A total of 22 publications including research papers (10), books (8), technical report (1) and newsletters (4) have been published by ICAR-ATARI, Kanpur. Also under HRD 2 trainings programmes were attended by ATARI staff. Under the events category 6 workshops, 62 meetings (virtual & physical) organised by ICAR-ATARI, Kanpur

KVKs also published a total of 3024 publications including books (63), training manual (158), book chapter (171), research papers (228), seminar papers (59), technical bulletins (307), technical reports (611), and others (1427). Under HRD programmes Directorate of Extension organised 24 programmes with the participation of 626 KVK scientists.

8.1. Publications and HRD by ATARI**8.1.1 Papers in research journals**

1. MJ Chandre Gowda, Rajesh Kumar Rana, Partha Prathim Pal, Shantanu Kumar Dubey, Amrendra Kumar, MS Meena, Randhir Singh, R Bordoloi, A Bhaskaran, AA Raut, T Rajesh, Bagish Kumar, K Thimmappa. 2023. Economic Performance of Enterprises Promoted under ARYA and Relationship with Entrepreneurial Competencies. Indian Journal of Extension education. Vol. 59, No.2 (April-June), 2023, P: 10-15.
2. Dileep Kumar Pandey, Siddhartha Singh, Shantanu Kumar Dubey, Tara Singh Mehra, Sreenath Dixit, Gajanan Sawargaonkar. 2023. Nutrient profiling of lablab bean (*Lablab purpureus*) from north-eastern India: A potential legume for plant-based meat alternatives. Journal of Food Composition and Analysis. Vol. 119, June 2023, P: 105-252.
3. Tara Singh Mehra, DK Pandey, Shantanu Kumar Dubey. 2023. Biodiversity wealth forging well-being: a case of institutional herbal garden consolidating the biodiversity citizen science. CURRENT SCIENCE. Vol. 124, No. 9, 10 May 2023.
4. Atar Singh, AK Singh, SK Dubey, VP Chahal, Randhir Singh, Anupam Mishra, Rajbir Singh, BC Deka, SK Singh, SS Singh, Lakhan Singh, AK Tripathi, YG Prasad, Anjani Kumar, MJ Chandra Gowda, Sadhna Pandey, Rajeev Sing. 2023. Ensuring productivity advantages through Cluster Frontline Demonstrations (CFLD)-pulses: Nationwide experiences. Indian Journal of Agricultural Sciences. Vol. 93, No. 5, P: 561-566, May 2023.
5. Maneesh Mishra, SC Ravi, Anil Kumar Verma, Alok Kumar Gupta, Shantanu Kumar Dubey, Rohit Jaiswal. 2023. Assessing Composite Livelihood Security and its Determinants Among Rural Households. Indian Journal of Extension Education. Vol. 59, No. 2 (April-June), 2023, P: 41-45.
6. Netrapal Malik, Shantanu Kumar Dubey. 2023. Enhancing Effectiveness of Farm School through Community Wall Magazine (CWM): A Field Experimental Study. Indian Journal of Extension Education. Vol. 59, No. 2 (April-June), 2023, P: 65-68.
7. SK Dubey, Atar Singh, Sadhna Pandey, Uma Sah, Aman Kumar, Rajeev Singh. 2023. Effect of CoVID-19 lockdown on the investment and profitability in crop enterprises: A cross-sectional evidences from Uttar Pradesh. Indian Journal of Extension Education. Vol. 59, No.2 (April-June), 2023, P: 16-21.
8. AK Tripathi, SK Dubey. 2023. Revisiting the science of agronomy: crop production versus crop management. Current Science. Current Science, Vol. 124, No. 6, 25 March 2023, P: 662-663).
9. Sumit Kumar Shukla, Jitendra Ojha, Ankit Kumar Tiwari, Pranjal Shukla, Uma Sah, Shantanu Kumar Dubey. 2023. Trends and Correlates of Sugarcane Production: A Case of Basti District in Uttar Pradesh. Journal of Community Mobilization and Sustainable Development. Vol. 18, No. 1, January-March 2023, P: 97-100.

8.1.2 Books/Book Chapter

	Dr. Shantanu Kumar Dubey	
1	Cluster frontline demonstration as the tool for securing self-sufficiency in pulses. 2023	Author
2	Agricultural Value Chains: A Cardinal Pillar for Future Development and Management of Farming. Agriculture, Livestock Production and Aquaculture: Advances for Smallholder Farming Systems Volume 2. 2022.	Author
3	Gender Issues in Farming: Challenging Socially Embedded Positions in Agrarian Context. Agriculture, Livestock Production and Aquaculture: Advances for Smallholder Farming Systems Volume 1. Book Springer International Publishing 2022.	Author
4	Modern Extension Tools and Approaches for Upscaling, Outscaling and Deep-Scaling Wheat and Barley Technologies. New Horizons in Wheat and Barley Research: Global Trends, Breeding and Quality Enhancement Book Springer Singapore. 2022.	Author
5	Operational Framework for Development of Model Pulse Village: An Action Research. Book Society for Community Mobilization for Sustainable Development. 2022.	Author
6	Value Chain Analysis of Field Pea: A Case of UP Bundelkhand Region of India. Society for Community Mobilization for Sustainable Development. 2022.	Author

8.1.3 Technical Report:

S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav and S.N. Yemul (2022). Annual Progress Report of KVKs Published by ICAR-ATARI, Kanpur.

8.1.4 News Letters:

1.	S.K. Dubey, S.K. Singh, Sadhna Pandey, Raghwendra Singh & S.N. Yemul (2023). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 30, pp 1-12.
2.	S.K. Dubey, S.K. Singh, Sadhna Pandey, Raghwendra Singh & S.N. Yemul (2023). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 31, pp 1-12..
3.	S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav & S.N. Yemul (2023). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 32, pp 1-12.
4.	S.K. Dubey, S.K. Singh, Raghwendra Singh, Seema Yadav & S.N. Yemul (2023). News Letter ICAR-ATARI, Kanpur published by ICAR-ATARI, Zone-III, Kanpur (U.P.). Volume- 33, pp 1-12.

8.1.5 HRD by ATARI

1. Capacity building program for newly appointed SMSs of UP at SVPUAT Meerut
2. Virtual HRD programme on “Krishi mein sankhikiy aur machine learning taknik ka Parichay” organised by IARI, New Delhi during 6-12 June, 2023.

8.1.6 Workshops

1.	Annual Zonal Review Workshop of NICRA Project for KVKs of Uttar Pradesh (12-14 May, 2024)
2.	Annual Zonal Workshop of KVKs organised at BHU, Varanasi during 30 th June-2 nd July, 2023
3.	Mid-term review workshop of Krishi Vigyan Kendras of Eastern Plain Zone (UP) organised by ICAR-ATARI Kanpur (12 October, 2023)
4.	Mid-Term Review Annual Action Plan-2024 workshop of KVKs of South Western Semi Arid and Central Plain Zones (U.P.) organized during 26-27 October 2023.
5.	Mid-term Review Action Plan-2024 Workshop of KVKs under Bhabar & Tarai Zone, Western Plain Zone and Mid Western Plain Zone (UP) organised during 2-3 November 2023
6.	Zonal Review Workshop of Farmer FIRST programme organized during 8 November, 2023.
7.	Mid-term Review and Action Plan meeting of KVKs under Bundelkhand, North Eastern Plains & Vindhyan Zones (UP) organised during 17-18 November 2023

**8.1.7 Meetings/events (Virtual & Physical)**

S.No.	Name of Events and Meetings	Date
1.	Organized virtual IMC meeting of ICAR-ATARI, Kanpur	09.01.2023
2.	Organized virtual meeting on Natural farming	10.01.2023
3.	Participation in virtual meeting on Natural Farming with DDG (AE)	17.01.2023
4.	Virtual participation in the seminar on "Integrated Crop Residue Management"	21.01.2023
5.	Virtual participation in SAC Meeting of KVK Meerut	31.01.2023
6.	Virtual participation in the New Year Celebration meeting with Secretary (DARE) & DG (ICAR)	02.01.2023
7.	Virtual Participation in the meeting on Utilization of Budget-Expenditure with DDG (AE)	02.02.2023
8.	Participation in the interview for the post of SMS (Home Science) at KVK-I Ghazipur	04.02.2023
9.	Participation in interview for the selection of technical post at KVK-II, Sitapur	9-10 Feb., 2023
10.	Budget Expenditure meeting with all Directors of Extension	13.02.2023
11.	Organised virtual DFI meeting	21.02.2023
12.	Participation in Extension Council Meeting organized by SVPUAT, Meerut	22.02.2023
13.	Dr. Sadhna Pandey, PS (HSc & Extn.) attended the selection committee meeting for the recruitment of vacant posts of Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur.	22.02.2023
14.	Participation in the training on e-Office organized by ICAR-IASRI, New Delhi	22.02.2023
15.	Virtual Participation in the meeting on "SAMARTH" organized by Ministry of Agriculture, New Delhi	24.02.2023
16.	SAC Meeting at Ghazipur-I	25.02.2023
17.	Virtual Participation on Strategic Planning Meeting at ICAR, IIWBR, Karnal	26.02.2023
18.	Participation of Director in International Seminar organized by DRI, Chitrakoot	26.02.2023
19.	Participation in Rashtriya Sangosthi organized by DRI, Chitrakoot	27.02.2023
20.	Participation in Kisan Mela organized by KVK Haidergarh	27.02.2023
21.	Participation in the meeting on eHRMS organized by ICAR-IASRI, New Delhi	28.02.2023
22.	Organized monthly staff meeting of ICAR-ATARI Kanpur	01.03.2023
23.	Participation in Kisan Mela at KVK Shahjahanpur	02.03.2023
24.	Participation in Annual conference of VCs & Directors of ICAR Institutes at NASC Complex, New Delhi during 4-5 th March, 2023 and ICAR-Industry interface on 06.03.2023.	4-6 March, 2023
25.	Organized meeting regarding utilization of budget of NICRA-TDC	07.03.2023
26.	Virtual participation in 94th Annual General meeting through video conferencing on 10th March, 2023.	10.03.2023
27.	Virtual participation in the meeting on Man Ki Baat of Hon'ble PM with DDG(AE)	15.03.2023
28.	Participation in Kisan Mela and Krishi Udyog Pradarshani at ANDUAT, Ayodhya	17.03.2023
29.	Participation in the programme entitled "Shri Anna (Milletes) ka utpadan evam niryat badhane ke prayas"	24.03.2023
30.	Participation in the inauguration programme of Admin Building of KVK-II Hardoi	26.03.2023
31.	Virtual participation in Review meeting of eHRMS organized by ICAR-IASRI, New Delhi	31.03.2023
32.	ICAR, ATARI, Kanpur celebrated its 15 th Institute foundation Day	19.03.2023
33.	Participation in Global Millet (Shree Anna) conference	18-19 March, 2023
34.	IMC Meeting organized by ICAR-ATARI, Kanpur	11.01.2023
35.	Participation in NICRA-TDC ZMC at CRIDA, Hyderabad	11-12 Feb., 2023
36.	Participation in Divisional Review Meeting	05-06, Jan. 2023
37.	Participation in International Extension Education Conference	27.01.2023
38.	Foundation of Admin Building of KVK-II Hardoi by Hon'ble Agricultural Minister, U.P	26.03.2023
39.	ATARI conducted virtual review meeting on budget utilization with all Directors of Extensions	13.02.2023
40.	Participation in SAC meeting of KVK Unnao	22.03.2023

41.	Extension council meeting and Review of KVKs under SVPUAT, Meerut	23.02.2023
42.	Dr. Himanshu Pathak, Secretary DARE & DG (ICAR) visited to ICAR-ATARI, Kanpur.	15.04.2023
43.	World environment Day organized by ICAR ATARI, Kanpur	05.06.2023
44.	CSISA Project Meeting at Lucknow, Gorakhpur and Mahrajanj	06.04.23 & 07.4.2023
45.	Meeting with SMD officials in New Delhi.	05.05.2023
46.	Board of Management Meeting at BUAT, Banda	09.05.2023
47.	3 rd Extension Council meeting at BUAT, Banda	19.05.2023
48.	State-level convergence platform (CP) meeting of CSISA Project at ICAR-IISR, Lucknow.	30.05.2023
49.	HRD training programme in Hindi on “Krishi mein sankhikiy aur machine learning taknik ka Parichay” attended by Shri Yemul Sanjeev N., CTO. Organised Virtually by ICAR-IASRI, New Delhi	6-12 June, 2023
50.	Millets programme organized under International year of Millets 2023 by KVK Sitapur-II	13.06.2023
51.	SAC Meeting of KVK	15.06.2023
52.	ISEE National Seminar 2022-23, UAS, GKVK, Bengaluru	22-23 June, 2023
53.	SAC meetings of KVK Jaunpur-I, Jaunpur-II and Azamgarh	15-17 April, 2023
54.	SAC meeting of KVK Meerut	13.06.2023
55.	CRM meeting by Dr. S.K. Singh, PS (AE) at ICAR-ATARI, Ludhiana, Zone-I.	09.06.2023
56.	Extension Council Meeting at RLBCAU, Jhansi	04.07.2023
57.	Participation in 95th Foundation Day of ICAR	16.07.2023
58.	Visit to KVK Hapur by the ATARI Director	18.07.2023
59.	Participation in RAC meeting	4-6 Aug., 2023
60.	Review workshop of CRM Project	10-12, Sept., 2023
61.	Hindi Pakhwada Organised	14-29 Sept. 2023
62.	Land Diagnostic Survey of Pulses	27.09.2023
63.	Visit of ZMC members in NICRA villages	25-26 Sept., 2023
64.	Virtual Review Meeting on Recipe Contest under the Chairmanship of ADG (AE).	05.07.2023
65.	Virtual meeting regarding landscape diagnostic Pulse Survey organized by CIMMYT India and streamlined the Survey work.	06.07.2023
66.	Virtual meeting under the Chairmanship of DDG (AE) regarding better functioning of KVKs in UP.	12.07.2023
67.	Meeting under the Chairmanship of DDG (AE), ICAR regarding developing the Mega Project and seeking financial assistance from Govt. of Uttar Pradesh in Committee room of C.S. Auditorium, NASC Complex New Delhi.	17.07.2023
68.	Visit of KVK Rampur. The centre has been face lifted with support from RKVY and the new tissue culture lab is also established.	18.07.2023
69.	Monthly staff meeting of ICAR-ATARI, Kanpur staff for the month of July 2023.	31.07.2023
70.	Pulse Survey in Uttar Pradesh - Review Meeting organized by CIMMYT India for gearing up the survey work (LDS) in Uttar Pradesh.	02.08.2023
71.	Meeting with Directors of ICAR institutes of U.P. under the Chairmanship of DDG (AE) on preparing the project proposal to be funded by Uttar Pradesh Government at ICAR-CISH, Lucknow.	12.08.2023
72.	Eight Foundation Day of ICAR-ATARI Patna as Special Guest	19.08.2023
73.	Virtual meeting regarding Preparation of activities for CRM Project under the chairmanship of DDG (AE)	28.08.2023
74.	Virtual meeting regarding TSP and SCSP under the chairmanship of ADG (AE)	31.08.2023
75.	Visit to KVK Gorakhpur-II & KVK Basti	02.09.2023



76.	Visit to Krishi Nideshalay (Directorate of Agriculture) Lucknow	04.09.2023
77.	Foundation Day program of ICAR-IIPR, Kanpur	05.09.2023
78.	Capacity building program for newly appointed SMSs of UP at SVPUAT Meerut	06.09.2023
79.	Virtual meeting regarding 'ICAR - ATARI Ranking' under the chairmanship of DDG (AE)	11.09.2023
80.	Training on Honey Bee Farmers at IISR Lucknow	21.09.2023
81.	Network Annual Workshop NASC Complex, New Delhi	27.09.2023
82.	Purvanchal Kisan Mela and Krishi Pradarshini in Gorakhpur on	03.10.2023
83.	Convergence Platform (CP) Meeting at ICAR-IISR Lucknow On	30.10.2023
84.	Hon'ble DG ICAR ICAR's interacted with KVKs, DEs & ATARI Directors	09.11.2023
85.	Virtual Interaction meeting with Dr. Himanshu Pathak, Secretary DARE and DG ICAR	17.11.2023
86.	Participation in National Workshop of Farmer FIRST at CSKHPKV, Palampur (HP) during	28-30 Nov. 2023
87.	Virtual participation in Divisional Meeting of all ATARIs under the chairmanship of DDG (AE)	13.12.2023
88.	SAC Meeting KVK Kaushambi	17.10.2023
89.	Participation in Farmer Fair at BUAT Banda	28.10.2023
90.	Online meeting on Scaling up of Promising Climate Resilience Technologies as part of RAD programme organized by ICAR-CRIDA, Hyderabad	31.10.2023
91.	Online budget meeting for KVKs of SVPUAT, Meerut organized by ICAR-ATARI, Kanpur	10.11.2023
92.	Online Meeting with KVKs on Vikasit Bharat Sankalp Yatra organized by ICAR-ATARI, Kanpur.	10.11.2023
93.	Online Meeting of All States under the Chairmanship of Joint Secretary (INM)	13.11.2023
94.	Online Meeting with KVKs on Vikasit Bharat Sankalp Yatra organized by ICAR-ATARI, Kanpur	14.11.2023
95.	Online Meeting with KVKs on Vikasit Bharat Sankalp Yatra organized by ICAR-ATARI, Kanpur.	29.11.2023
96.	Participated in National Symposium at RLBCAU, Jhansi	21.11.2023
97.	Online expenditure review meeting of KVKs under ANDUAT, Ayodhya	10.12.2023
98.	Participation in Online Meeting on financial matter.	19.12.2023
99.	Participated in "National Farming- A way forward to sustainable Agriculture" program at SKUAST-K, Srinagar.	21.12.2023
100.	Online Review Meeting of Expenditure of KVKs up to Nov 2023 organized by ICAR-ATARI, Kanpur.	26.12.2023
101.	Participation in 'Prof. Dr. Kirti Singh Memorial Lecture & National Seminar 2023 on Natural & Organic Farming for sustainable Agriculture' at ICAR-IISR, Lucknow.	29.12.2023

8.2 Publications by Kvks and HRD by Directorate of Extension

8.2.1 Publications by KVKs

S.No.	Category	Number	No. of KVKs
1	Books	63	29
2	Training Manual	158	39
3	Book Chapter	171	42
4	Research papers	228	60
5	Seminar Papers	59	28
6	Technical bulletins	307	59
7	Technical reports	611	71
8	Others (pl. specify)	1427	62
	Total	3024	71

8.2.2 HRD by Directorate of Extension

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants
SVPUA&T, Meerut	Capacity Building Program for newly recruited SMSs	1	55
	Induction Program on Agricultural Marketing for Newly appointed SMSs of KVKs	1	55
	Extension methodology and motivational skills for extension personnel	1	49
	Participatory planning and execution of technology application by the KVKs of UP	1	48
	Creation of Agri-Business Ecosystem Through Farmer Producer Organizations	1	7
	Effective communication skills for extension personnel	1	20
	Soft skills for extension professionals	1	20
	Production and Protection Technologies of Horticultural Crops	1	33
	Total	8	287
BUAT, Banda	Skill oriented training for KVK Staff	9	90
	Total	9	90
ANDUAT, Ayodhya	Content Management System	1	86
	Natural Farming	1	25
	Millet Production and Value Addition	1	25
	Smart Agriculture	1	25
	Total	4	161
CSAUAT, Kanpur	HRD Training Programme on Natural Farming: "Bhartiya Prakritik Krishi Padhatti for KVK Scientists	1	30
	Recent Plant Protection measure in Agri-horticultural Crops for KVKs	1	22
	HRD Training for Scientists	1	36
	Total	3	88
	Grand Total	24	626



Chapter-9

PROJECTS AND SPECIAL PROGRAMMES

This institute is handling different type of projects categorised into Network Research Projects, National Programme and ICAR Flagship projects/programme. Its titles are given as below and its details, period, PI-Co PI are given in Annex-VI. Detail achievements of programmes are given in Annex-II.

A) Network Research Projects :

1. Impact assessment of popular pulses varieties and technologies disseminated by KVKs through Cluster frontline demonstration of pulses (CFLD-P) in India
2. Impact Assessment of crop residue management technologies on productivity and profitability of rice-wheat system (RWS) in Northern Plains of India
3. Impact of Technological Interventions of KVKs on Socio-Economic Empowerment and Sustainable Livelihood Security of Tribal Farmers
4. Doubling Farmers Income (DFI) Project
5. Analysis of agricultural programmes in Aspirational Districts in India
6. Impact of climate resilient technology interventions implemented through National Innovations in Climate Resilient Agriculture (NICRA) across different agroecological regions of India
7. Impact of ARYA on promotion of agri-preneurship, alternative livelihoods and spin off effect
8. Gender and nutrition project

B) 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)

C) 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 18592 farmers were benefitted. In this project, total 5041 demonstrations were made under three modules namely *NRM* (459), *Crop Production* (3295) and *Livestock & fisheries* (883 demonstrations/2586 animals) by covering an area of 372.85 ha, 1190.51 & 101.25 respectively.

Under *Capacity Building* module, total 187 training courses were conducted for 4882 farmers and under *Extension Activities* 217 programmes were organised by covering 13710 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 service 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 under various schemes/ program for sustainable development of youth

Technical Achievements: (1) No. of entrepreneurial units established: **581** (mushroom production-195, Quality seed and Planting material 18, Poultry-137, Goat farming-136, Bee keeping-68, Vermicomposting-27); (2) No. of Training programs organised: 42; (3) No. of rural youth trained: 2096; (4) No. of youth established units: 413.

Total 10 KVKs namely Muzaffarnagar, Varanasi, Gorakhpur, Kaushambi, Pratapgarh, Saharanpur, Deoria, Basti, Ghazipur and Lucknow 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 37 IFS units established spanning an area of 194.13 ha and 19 unit during 2023. Under IFS total 53 demonstrations and 90 trainings were conducted for 384 and 1744 farmers benefited respectively during 2023.

Total 13 KVKs namely Baghpat, Chandauli, Bulandshahar, Deoria, Ghaziabad, Ghazipur, Kushinagar, Lalitpur, Lucknow, Pilibhit, Varanasi, Fatehpur, Mirzapur 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 -

(i) Farmers Training (Courses: 95, Participants: 3119), (ii) Women Farmer Training (Courses: 29, Participants: 914), (iii) Rural youths (Courses: 11, Participants: 295), (iv) Extension Personnel (Courses: 3, participants: 60), (v) Involvement of farmers in (OFT: 66, FLD: 1968, mobile advisories: 916 farmers), (vi) Participation in extension activities: 2075, (vii) Production of seed: 2188 q, (viii) Production of planting materials: 0.12 lakh, (ix) Production of Livestock strains: 25 lakh, Production of fingerlings (No. in lakh) 0.8 lakh, Soil testing: 330

A total of 21 villages were adopted under KSHAMTA programme. Also 4424 farmers are benefitted by providing 71 training programmes and 436 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) Training: A) Farmers 447 with 11404 beneficiaries B) Extension Functionaries: 36 with 720 beneficiaries
- (ii) On farm trails: 380
- (iii) Frontline demonstrations: 5452
- (iv) Mobile advisories to the farmers: 9624
- (v) Participants in extension activities: 94049
- (vi) Production of seed: 254.82q
- (vii) Production of planting material: 35235.27 lakh
- (viii) Testing of Soil, water, plant, manures samples: 2337

KVKs involved: 16 (Raebareilly-2, Lucknow, Hardoi, Barabanki, Sonbhadra, Unnao, Sitapur - I, Kaushambi, Chandauli, Mirzapur, Jhansi, Jalaun, Mahoba, Chitrakoot, Kanpur dehat, Azamgarh)

(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 2023 all the seven institute together conducted 3822 demonstrations on 2788 livestock & poultry by coverings 3685 families in the state of Uttar Pradesh. Total 168 extension activities were also conducted which benefitted 2735 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 146 awareness camps conducted and 16444 farmers were benefitted (ii) Total 52 training programmes organised and 1342 farmers were benefitted (iii) Total 4072 demonstrations conducted covering an area of 2257.80 ha (iv) Schools & colleges students mobilized through essay completion, painting, debate etc and 92 activities conducted by participation of 12702 students. (v) Total 27 Kisan Melas organised and 16764 farmers are benefitted. (vi) Total 784 Column / Articles published in newspaper and magazines (vii) 218 Hording fixed at mandi/ road side/ market/ schools/ petrol pump/ panchayat etc, 215 Poster/ Banner placed at different location/ buses etc. (viii) Total 137522 publicity material such as leaflets/ pamphlets etc. distributed (ix) Total 125 made awareness through TV & Radio (x) 51 exposure visit conducted by benefitting 2071 farmers (xii) total 41 field days organised by participating 1748 farmers (xiii) Total 123 advertisement published in Print media. (xv) Award given for village/ Gram Panchayat for achieving zero stubble burning.

KVKs involved: 23 KVKs of Uttar Pradesh namely Agra, Aligarh, Azamgarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshahar, Etah, Firozabad, G.B. Nagar, Ghaziabad, Etawah, Jaunpur, Mathura, Meerut, Moradabad, Muzaffarnagar, Pilibhit, Rampur, Saharanpur, Shahjahanpur, 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): 2840
- Number of Farmer Awareness Programs (FAP) : 58
- Number of Trainings : 28
- Number of Bulletins : 1159
- Number of Whatsapp Messages: 7567
- Diagnostic Field visit : 93
- Radio & TV Talk: 23
- Number of Articles/News published in newspapers: 211

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 2023 total 6495.95 quintal pulse seeds (black gram 432.00 q, green gram 1043.95 q, chickpea 1320.00 q, field pea 1580.00 q, lentil 1260.00 q and Pigeon pea 860.00) 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 5 training programmes benefitting **120** 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, IGFR, 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 recipes 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.

- (i) Trainings (courses: 354, Participants: 8398)
- (ii) Extension programmes (Number 330, Participants: 18269)
- (iii) Nutritional Garden units established: 1809 and 2817 farmer benefitted
- (iv) Bio-fortified crops: 137 and 1633 farmers benefitted
- (v) Value addition: 157 and 2116 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: 252 with 22746 participants
- No. of training programmes organized: 52 with 2084 participants
- No. of demonstrations organized at farms of KVKs: 416 with 868 farmers

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

- i. **ANDUAT, Ayodhya (13):** Bahraich-I, Basti, Ballia, Mau, Varanasi, Siddharthnagar, Ayodhya, Sonbhadra, Azamgarh-I, Barabanki, Chandoli, St. Kabir Nagar, Amethi

- ii. **BUAT, Banda (6):** Jhansi, Mahoba, Hamirpur, Jalaun, Lalitpur, Banda
- iii. **CSAUT Kanpur (7):** Fatehpur, Aligarh, Kannauj, Etawah, Farrukhabad, Kasganj, Raibareilly-II
- iv. **SVPUAT, Meerut (9):** Bijnore, Budaun-I, Shahjahanpur, Meerut, Muzaffarnagar, Bulandshahr, Amroha, Hapur, Sambhal
- v. **ICAR KVKs (5):** Bareilly, Lucknow, Kushinagar, St. Ravidas Nagar, Hardoi-II
- vi. **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 250 farmers benefited through 46 activity conducted on 4 different programme plantation paddy up pulling & DSR (20 & 20), Training (4 & 110) and Kisan Mela (2 & 100).

(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-346, Number of field activities conducted 1295, Number of messages / Advisory sent-502, Number of Farmers benefitted -27000.

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 (28), demonstrations (9), planting materials produced (76500), visit by farmers (18561), visit by officials (141).

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 Institutes 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 : 6000.

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

- 10 KVKs (Bijnor, Shamli, 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 under Swachha Bharat Abhiyan:

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	160	1339
2	Road, drain cleaning	427	5783
3	Garbage disposal	307	2846
4	Door to door awareness	345	5797
5	Awareness campaign	393	12856
6	Nookkad Drama	456	366
7	School Drama	548	577
8	School rally	364	5005
9	Writing paining slogans	235	1182
10	Composting	221	1851
11	Other	254	2686
	Total	3710	40288

Chapter-10

WOMEN EMPOWERMENT 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 (1003) related to women empowerment were organized with the participation of 20422 farm women. Value addition courses (177) were attended by highest number of farm women (3652), followed by Household food security by kitchen gardening and nutritional gardening courses (166) were attended by (3486) number of farm women, women and child care (104) attended by 1967 women participants, development of high nutrient efficiency diet courses (98) attended by 2019 women etc. The farm women also showed interest in courses like development of low cost diet, minimization of nutrient loss in processing, processing and cooking, women empowerment, drudgery reduction, storage loss minimization technique, rural craft, etc. were also conducted.

Table- 10.2 Training of Farm Women on Women Empowerment

Areas of Training	No. of Courses	Female
Household food security by kitchen gardening and nutrition gardening	166	3486
Design and development of low/minimum cost diet	69	1389
Designing and development for high nutrient efficiency diet	98	2019
Minimization of nutrient loss in processing	64	1268
Processing and cooking	59	1107
Gender mainstreaming through SHGs	24	493
Storage loss minimization techniques	53	1117
Value addition	177	3652
Women empowerment	56	1046
Location specific drudgery reduction technologies	53	1179
Rural Crafts	28	621
Women and child care	104	1967
Others	52	1078
Total	1003	20422

10.2.1 Training of Farm Women on Agricultural Related Enterprises

Under trainings for farmers and farm women category, total of **6350** courses were conducted by KVKs of the Uttar Pradesh with the participation of **20717** farm women (Table 2.2). Maximum courses (1596) and participants (4766) were related to crop production. The other areas of trainings were horticulture (1316 courses and 4232 participants); livestock production management (907 courses and 3307 participants); plant protection (894 courses and 2521 participants); soil health and fertility management (661 courses and 2318 participants); capacity building & group dynamics (334 courses and 1262 participants); production of input at site (274 courses and 1238 participants); agricultural engineering (249 courses and 639 participants); fisheries (12 courses and 140 participants); agro forestry (107 courses and 294 participants).

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

Area of Training	No. of Courses	Female
Crop Production	1596	4766
Horticulture	1316	4232
Soil Health and Fertility Mangmt.	661	2318
Livestock Production and Mangmt.	907	3307
Agril. Engineering	249	639
Plant Protection	894	2521
Fisheries	12	140
Production of Inputs at site	274	1238
Capacity Building and Group Dynamics	334	1262
Agro-forestry	107	294
Grand Total	6350	20717

(i) Crop Production

With respect to crop production, 1596 training courses were organized in Uttar Pradesh with the participation of 4766 farm women. Integrated crop management related 300 courses were organized in which 871 farm women participated; followed by 189 courses on weed management (548 participants), 196 on seed production (605 women participants), 125 courses on Integrated nutrient Management (319 women participants). The other important areas like RCT, cropping systems, crop diversification, nursery management, integrated farming, 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. 640 courses on vegetables involving 2251 and 380 courses on fruit with the participation of 1293 were held. Similarly, in case of ornamental plants, organizations of 83 courses with participation of 200 farm women were ensured. In the area of plantation crops, tuber crops, spices, medicinal & other crops 30, 52, 60 and 71 courses were organized with participation of 130, 140, 146 and 72 farm women.

(iii) Soil Health and Fertility Management

Total of 661 courses were attended by 2318 farm women. The courses in the area of integrated nutrient management (130), soil fertility

management (119), production & use of organic inputs (81), soil & water testing (74), balanced use of fertilizer (55), management of problematic soils (41), micro-nutrients deficiency in crops (39) and nutrient use efficiency (31), etc. were organized with the objectives to create awareness, knowledge and skill among farmers to address various issues. These trainings involved 397, 397, 287, 251, 207, 140, 131 and 125 women beneficiaries respectively were benefitted.

(iv) Livestock Production Management

All together 907 courses were organized with the participation of 3307 farm women participants. The courses related to dairy management (226) were organized with the participation of 818 women cattle owners. Disease management (202) was second preferred program attended by 580 women participants. Feed and fodder management, animal nutrition, poultry, quality animal products, etc were other priority areas.

(v) Agricultural Engineering

Total of 249 courses in various aspects related to farm machinery, implements and its maintenance, post harvest and value addition were organized by KVKs, benefiting 639 farm women. Maximum courses on repair & maintenance of farm machinery & implements (75) were organized benefiting 185 women. Newer areas like installation and maintenance of micro irrigation system, use of plastics, small tools, etc. were also taken up in training programs.

(vi) Plant Protection

Under Plant Protection total 894 courses were organized with the participation of 2521 farm women. The highlights of these programs and others each course were on IPM (386), IDM (263), bio control of pests and diseases (118), production of bio control agents & bio pesticides (49).

(vii) Fish Production

The courses on integrated fish farming (8) and composite fish culture (4) were mainly organized with the participation of 102 and 38 farm women respectively. Overall 12 courses attracted 140 women participants.

(viii) Production of inputs at site

Total 274 courses on this theme attracted participation of 1238 farm women were organized. Mushroom production, vermin-composting, apiculture and seed production attracted maximum participation.

(ix) Capacity Building and Group Dynamics

334 courses were organized benefiting 1262 women participants. The topics covered in the programs included leadership development, group dynamics, SHGs, entrepreneurship development, WTO & IPR, etc.

(x) Agro-forestry

In this area, 107 courses were organized benefiting 294 farm women. The topics covered in the programs included production technology, nursery management, integrated farming systems, etc.

10.2.2 Training of Rural Girls

Total of 940 courses involving 5033 rural girls were conducted. The highest participation was attracted towards the programs like value addition (66), mushroom production (92), tailoring and stitching (22), rural crafts (24), seed production (101), sheep and goat rearing (68), nursery management of horticultural crops (60), bee-keeping (58) 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 programs were also organized.

Table-10.2.2 Training of Rural Girls

Area of Training	No. of Courses	Female
Nursery Management of Horticulture crops	60	268
Training and pruning of orchards	20	66
Protected cultivation of vegetable crops	40	106
Commercial fruit production	13	53
Integrated farming	37	96
Seed production	101	336
Production of organic inputs	50	164
Planting material production	16	59
Vermi-culture	32	139

Mushroom Production	92	471
Bee-keeping	58	179
Sericulture	3	11
Repair and maintenance of farm machinery & implements	22	42
Value addition	66	807
Small scale processing	15	152
Post Harvest Technology	13	53
Tailoring and Stitching	22	395
Rural Crafts	24	392
Production of quality animal products	9	109
Dairying	52	144
Sheep and goat rearing	68	287
Poultry production	42	144
Composite fish culture	9	34
Fish harvest and processing technology	6	19
Other	70	507
TOTAL	940	5033

10.2.3 Training of Women Functionaries

Total of 1089 courses involving 5714 extension personnel were organized by the KVKs of Uttar Pradesh. Major areas in which extension personnel were trained were productivity enhancement in field crops (184), integrated pest management (155), INM (95), production of organic inputs (63), livestock feed & fodder (65), women & child care (75) etc. Details are shown in Table 2.4.

Table-10.2.3 Training for Extension Personnel

Area of Training	No. of Courses	Female
Productivity enhancement in field crops	184	386
Integrated Pest Management	155	267
Integrated Nutrient management	95	150
Rejuvenation of old orchards	30	68
Protected cultivation technology	59	145
Production and use of organic inputs	63	142
Care & maintenance of farm machinery & implements	27	49
Gender mainstreaming through SHGs	15	136
Formation and Management of SHGs	19	110
Women and Child care	75	1546
Low cost and nutrient efficient diet designing	39	717
Group Dynamics and farmers organization	12	19

Information networking among farmers	4	3
Capacity building for ICT application	26	53
Management in farm animals	61	183
Livestock feed and fodder production	65	182
Household food security	33	551
Other	127	1007
TOTAL	1089	5714

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 2023, KVKs conducted, technology demonstrations, trainings and various extension activities under NARI program. A total of 1809 nutri-gardens were established with 2817 farm women were benefited under FLDs.

Similarly, demonstrations were conducted on nutri-rich bio-fortified varieties of different 19 crops (cereals, millets, oilseeds, pulses, tubers, vegetables and fruits) to improve nutritional status to the farming community benefited 1633 women farmers. KVKs also conducted 157 demonstrations on value addition of different crops viz cereal, millets, vegetables and fruits and 2116 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 456 training programs were organized benefitted 11704 participants and 496 extension activities were organized benefitted 30312 participants at farmers fields for creating awareness on nutrition literacy.

Table-2.15 Various program organized under NARI during 2023

ICAR ATARI	Nutritional Garden		Bio-fortified crops/ variety		Value addition		Training programmes		Extension activities	
	No of 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 (45 KVKs)	1809	2817	137	1633	157	2116	354	8398	330	18269



Training programme (KVK Kaushambi)



Kisan Gosthi (KVK Kaushambi)

Under this program total 10 bio-fortified crops were used for nutritional security. Total 180.22 ha area was used by benefitting 1026 women farmers

under various biofortified crop. Details are given in following Table 8.4.

Table-2.16 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, CR DHAN-315, HUR 917, Zinco Rice MS/ DRR 45	13.00	35
Cereal	Wheat	Karan Vandana (DBW 187), WB-02, K-1006, HUW-838 (High zinc and iron), Black Wheat, DBW-303, HD-3298, DBW-173, HD-3226,	90.96	449
Millet	Pearlmillet	MPMH 21, Dhan shakti, Kaveri Super Boss	7.65	36
Millet	Finger millet	ML 365, VL-207, BL 352, VLE-279	20.50	69
Pulses	Lentil	IPL 220, Vaibhav	28.65	120
Oil seed	Mustard	PM-31, PM-33	15.70	72
Vegetable	Potato	Kufri Neelkanth	0.20	25
Vegetable	Cauliflower	Pusa - Meghna, Pusa Beta Kesari, Pusa Jamuni, Beta Katke	2.01	70
Vegetable	Radish	Kashi Lohit	0.80	50
Tuber	Sweet Potato	Pusa-Sunahari, Kufri Neelkanth	0.75	100
Total			180.22	1026



Farmer felicitation (KVK Kaushambi)



Training programme (KVK Kaushambi)



Demonstrations for women farmer (KVK Fatehpur)



Mahila Kisan Sanman Diwas (KVK Fatehpur)

10.4 Kitchen Gardening

Vegetables are major source of vitamins, minerals, and fibers. They are very important part of our diet as they contain various nutrients for many body functions. Vegetables also provide taste, palatability, better digestibility to us and increase the appetite. Vegetables are suitably grown in kitchen gardens as they are mostly short duration crops. A family can take vegetables from these kitchen gardens round the year. The nutritional kitchen garden is generally located close to the house and is used for growing vegetables, fruits, and other food crops for the family (Jana, 2015). It not only saves our money and time but also can provide a healthy, useful and environment friendly hobby for whole family. Kitchen gardens can help us in recycling of household waste especially when a compost pit is developed. One of the easiest ways of ensuring access to a healthy diet that contains adequate macro- and micronutrients is to produce many kinds of foods in the home garden. This is especially important in rural areas where people have low purchasing power and distant markets. Kitchen gardening directly provides food and nutritional security by making access to food that can be harvested instantly, prepared, and fed to family members, daily or whenever required. Home gardens are also becoming an increasingly important source of food and income for poor households. KVK Kanpur Dehat made an effort and planted more than 150 Kitchen gardens in Anoopur, Rudapur, Aurangabad, Majhiyar, Sahtawanpurwa, Biharipurwa, Ganesh pur, Arshadpur Jyonti and Jugrajpur Bithoor of Maitha block. As per RDA daily



vegetable consumption should be not less than 300 gm including 100 gm leafy vegetables, 100 gm green vegetables and 100 gm roots and tubers but in rural areas consumption of potato is as high as 350 gm per head/ per day because of non availability of green vegetables. so planting kitchen garden is easiest way to ensuring access to food as well as nutritional security.

10.5 Success Stories

10.5.1 Livelihood improvement through Vegetable cultivation (KVK Mahoba)

Introduction: Phoolwati's family is completely dependent on agriculture and was struggling for livelihood security due to lack of technical knowledge. Her husband migrated to Delhi to improve his financial situation but due to the Covid pandemic, he had returned to the village, due to which the financial condition of the family became even weaker. Phoolwati's family lives in Lamoura village adopted by the Krishi Vigyan Kendra and does small-scale vegetable production along with crops.

KVK intervention: The center imparted training for improved cultivation of flowering vegetable production. Also, under the demonstration of various advanced technologies by the Centre, they were motivated for scientific farming through Kharif Onion-L 883, Tomato-Arka Samrat etc. With the help of Krishi Vigyan Kendra, he obtained seedlings of other vegetables and produced better production.

Output: The annual income of Phoolwati's family was around Rs 2.00 lakh in the year 2020,

which has now increased to Rs 5.00 lakh per year. She obtained 830qtls/ ha yield of Tomato Arka Samrat and 223qtls/ ha of Kharif onion var. 883.

Outcome: There has been a huge change in Phoolwati's economic and social status through the support and training of Krishi Vigyan Kendra. Now she has started doing agriculture commercially and is able to provide good education and facilities to her children while discharging her family responsibilities in a better way. With the increase in family income, respect in the society has also increased.



Impact: About 25 farmers of the village get inspired and started cultivation of Kharif Onion-L 883 and Tomato- Arka Samrat.

10.5.2) Kitchen Gardening has helped in Nutritional Security (KVK Hamirpur)

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. Vegetables 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.

Krishi Vigyan Kendra, babugarh conducted Front Line Demonstration on Kitchen Garden. In these demonstrations, distribution of seeds and planting material of 10 types of vegetables were done. Smt. Sadhana, a progressive farm woman of kitchen garden initiative and a residents of Atuta Village in Hapur District says, "Apart from an increase in income, the kitchen garden initiative also helped me to ensure 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. Farm women were imparted through training, lecture and practical work to adopt Kitchen Garden.

Economic Benefits: Kitchen gardens help to enhance availability of nutrients and 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 60-70 per day for each family on an average.

Social Benefits: Kitchen gardens directly contribute to nutritional 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.



Women Empowerment through Skill Development Programme



KVK Mirzapur



KVK Agra



KVK Sultanpur II



KVK Pratapgarh



KVK Saharanpur



KVK Bijnour



KVK Hamirpur



KVK Agra



Chapter-11

STATUS OF INFRASTRUCTURE, STAFF & BUDGET

11.1 Infrastructure Facilities at KVK

Most of KVKs are having their own infrastructure facilities in Uttar Pradesh. Availability of infrastructures 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 (67). 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)				
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 Harvesting Structure	-	-	-	-	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.	Mini Seed Proc. Facility	-	-	-	-	-	-	1	3	4
20.	Four Wheeler	25	7	13	1	20	7	1	13	87
21.	Two Wheeler	21	4	14	1	14	2	1	13	70
22.	Tractor	18	4	13	1	13	5	-	13	67
23.	Agri Drone	1	1	-	-	2	-	-	3	7
24.	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 11 staff 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 (AF&AO-1, LDC-1, PS-1, Steno-1) are lying vacant. One Skilled Support Staff is filled and one post is vacant. Position wise details are given in following Table 12.2.1.

Table 11.2.1: 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	Agronomy
4	Scientist	2	1	1	Agril. Extension
5	Technical	2	2	0	-
6	Administrative	9	5	4	AF&AO-1, LDC-1, PS-1, Steno-1
7	Supporting	2	1	1	SSS-1
	Total	20	11	9	-

Table 11.2.2: Details of ICAR-ATARI, Kanpur staff

Category	Name of employee with designation	
RMP	Dr. Shantanu Kumar Dubey	Director
Scientific Staff	Dr. Sushil Kumar Singh	Principal Scientist (Agril Extension)
	Dr. Raghwendra Singh	Principal Scientist (Horticulture)
	Dr. Seema Yadav	Scientist (LPM)
	Mr. Yemul Sanjeev N.	Chief Technical Officer (Computer)
Technical Staff	Mr. Pramod Kumar Rai	Technical Officer (Driver)
Administrative Staff	Mr. Ram Bodh Verma	Asstt. Administrative Officer
	Mr. Raman Tripathi	Assistant
	Mr. R.K.P. Sinha	Assistant
	Mr. Sunil Kumar Singh	U.D.C.
	Mr. Shravan Kumar Yadav	L.D.C.
Supporting Staff	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) have been filled. 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	62	27
Subject Matter Specialist	534	411	123
Programme Assistant	267	144	123
Administrative	178	116	62
Auxiliary	178	126	52
Supporting	178	110	68
Total	1424	969	455
Total % filled		68.04 %	31.96 %

**Table 12.4: Discipline wise Sr. Scientist & Head and SMSs****(A) Sr. Scientist & Head**

S.No.	Name of subject	No. in Position
1.	Agricultural Extension	14
2.	Agronomy	11
3.	Animal Science	4
4.	Entomology	1
5.	Genetics & Plant Breeding	1
6.	Home Science	2
7.	Horticulture	13
8.	Plant Pathology	2
9.	Plant Protection	8
10.	Soil Conservation & Water Management	3
11.	Soil Science	3

(B) Subject Matter Specialists (SMSs)

S. No.	Name of subject	No. of filled positions	S. No.	Name of subject	No. of filled positions
1.	Agricultural Engineering	16	10.	Fisheries	7
2.	Agricultural Extension	40	11.	Genetics & Plant Breeding	18
3.	Agroforestry	8	12.	Home Science	52
4.	Agronomy	56	13.	Horticulture	64
5.	Animal Husbandry	9	14.	Livestock Production Management	7
6.	Animal Science	35	15.	Plant Pathology	3
7.	Crop Physiology	2	16.	Plant Protection	50
8.	Crop Production	2	17.	Seed Technology	7
9.	Entomology	3	18.	Soil Science	32

12.4 Status of Budget

During the financial year 2022-23, an amount of Rs. 14730.16 lakh was utilized/released against the allotted budget of Rs. 14755.78 lakh.

Table 12.4.1: Head wise allocation funds for ICAR-ATARI, Kanpur and KVKs of U.P. for 2022-23*(Rs in lakh)*

S. No.	Heads	ATARI	KVK	DE	Total
A	Revenue				
i)	Pay & Allowances	272.16	12677.84	0.00	12950.00
ii)	Pension	122.00	0.00	0.00	122.00
iii)	T.A.	6.33	101.90	2.55	110.78
iv)	H.R.D.	3.29	10.70	2.60	16.59
v)	Contingency	88.22	663.29	21.40	772.91
	Total (A)	492.00	13453.73	26.55	13972.28
B	Capital				
i)	Furniture/Equipment	0.00	18.03	0.00	18.03
ii)	Works	0.00	372.97	0.00	372.97
iii)	Library	0.00	0.00	0.00	0.00
iv)	Vehicle	0.00	23.50	0.00	23.50
	Total (B)	0.00	414.50	0.00	414.50
C	Revolving Fund	0.00	0.00	0.00	0.00
D	TSP - Capital	0.00	54.00	0.00	54.00

	TSP - General	0.00	20.00	0.00	20.00
	Total (D)	0.00	74.00	0.00	74.00
E	SCSP - Capital	0.00	195.00	0.00	195.00
	SCSP - General	0.00	100.00	0.00	100.00
	Total (E)	0.00	295.00	0.00	295.00
	Total (A+B+C+D+E)	492.00	14237.23	26.55	14755.78

Table 12.4.2: Actual Expenditure/Release for 2022-23

(Rs in lakh)

S. No.	Heads	ATARI	KVK	DE	Total
A	Revenue				
i)	Pay & Allowances	249.40	12677.84	0.00	12927.24
ii)	Pension	120.44	0.00	0.00	120.44
iii)	T.A.	6.30	101.90	2.55	110.75
iv)	H.R.D.	3.28	10.70	2.60	16.58
v)	Contingency	86.96	663.29	21.40	771.65
	Total (A)	466.38	13453.73	26.55	13946.66
B	Capital				
i)	Furniture/Equipment	0.00	18.03	0.00	18.03
ii)	Works	0.00	372.97	0.00	372.97
iii)	Library	0.00	0.00	0.00	0.00
iv)	Vehicle	0.00	23.50	0.00	23.50
	Total (B)	0.00	414.50	0.00	414.50
C	Revolving Fund	0.00	0.00	0.00	0.00
D	TSP - Capital	0.00	54.00	0.00	54.00
	TSP - General	0.00	20.00	0.00	20.00
	Total (D)	0.00	74.00	0.00	74.00
E	SCSP - Capital	0.00	195.00	0.00	195.00
	SCSP - General	0.00	100.00	0.00	100.00
	Total (E)	0.00	295.00	0.00	295.00
	Total (A+B+C+D+E)	466.38	14237.23	26.55	14730.16

Chapter-12

ATARI EVENTS & PARTICIPATION

During the year 2023, ICAR-ATARI, Kanpur organised following important events which includes both virtual and physical mode.



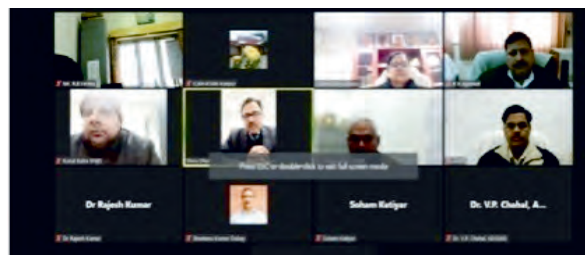
ICAR, ATARI, Kanpur celebrated its 15th Institute foundation Day (19.3.23)



IMC Meeting organized by ICAR-ATARI, Kanpur (11.01.2023)



Participation in Global Millet (Shree Anna) conference at NASC, New Delhi (March 18-19, 2023)



Participation in NICRA-TDC ZMC at CRIDA, Hyderabad (11-12 Feb. 2023)



Dr. Himanshu Pathak, Secretary (DARE) & Director General (ICAR) visited ICAR-Agricultural Technology Application Research Institute, Kanpur (15.04.2023)



ICAR-ATARI, Kanpur organized Annual Zonal Review Workshop of
 NICRA Project for KVKs of UP (12-14 May 2023)



Annual Zonal Workshop of KVKs organised at BHU, Varanasi during 30th June-2nd July, 2023



World environment Day organized by ICAR ATARI, Kanpur (5.6.2023)



Extension Council Meeting at RLBCAU, Jhansi (4.07.2023)



Millet Based recipe Contest (6.7.2023 onward)



Participation in 95th Foundation Day of ICAR (16.7.2023)

PM Kisan Samman Nidhi programme organized by KVKs (27.7.2023)



Participation in RAC meeting (4-6 Aug 2023)



Review workshop of CRM Project
(10-12 Sept. 2023)



Capacity building of newly joined SMS's of
KVKs (4-6 Sept. 2023)



Hindi Pakhwada Organised (14-29 Sept, 2023)





**Distribution
of Awards**

Land Diagnostic Survey of Pulses 27th September, 2023



Mid-term review workshop of Krishi Vigyan Kendras of organised by ICAR-ATARI Kanpur



Eastern Plain Zone (12.10.2023)

South Western Semi Arid and Central Plain Zones (26-27 October 2023)



Bhabar & Tarai Zone, Western Plain Zone and Mid Western Plain Zone (2-3 November 2023)

Bundelkhand, North Eastern Plains & Vindhyan Zones (17.11.2023)

Purvanchal Kisan Mela and Krishi Pradarshini in
Gorakhpur (3.10.2023)



Convergence Platform (CP) Meeting at
ICAR-IISR Lucknow (30.10.2023)



Hon'ble DG ICAR ICAR's interacted with KVKS, DEs & ATARI Directors



Participation of KVKs in Viksit Bharat Sankalp Yatra (15-31 December, 2023)



Annexure

Annex-I

TRAINING PROGRAMMES

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

Thematic area	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	82	1227	126	1353	461	97	558	1688	223	1911
Resource Conservation Technologies	63	920	90	1010	283	75	358	1203	165	1368
Cropping Systems	51	1060	104	1164	211	67	278	1271	171	1442
Crop Diversification	42	679	63	742	205	21	226	884	84	968
Integrated Farming	40	588	61	649	174	42	216	762	103	865
Micro Irrigation/irrigation	19	232	59	291	106	23	129	338	82	420
Seed production	103	1361	154	1515	524	122	646	1885	276	2161
Nursery management	40	737	74	811	194	37	231	931	111	1042
Integrated Crop Management	133	2215	253	2468	689	225	914	2904	478	3382
Soil & water conservatioin	28	394	52	446	99	19	118	493	71	564
Integrated nutrient management	55	931	76	1007	278	54	332	1209	130	1339
Production of organic inputs	30	431	50	481	191	33	224	622	83	705
Others	52	829	113	942	295	101	396	1124	214	1338
Total	738	11604	1275	12879	3710	916	4626	15314	2191	17505
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	79	1204	145	1349	325	123	448	1529	268	1797
Off-season vegetables	41	613	61	674	181	65	246	794	126	920
Nursery raising	63	948	132	1080	241	54	295	1189	186	1375
Exotic vegetables	17	236	21	257	45	42	87	281	63	344
Export potential vegetables	5	88	38	126	38	2	40	126	40	166
Grading and standardization	26	409	40	449	103	34	137	512	74	586
Protective cultivation	36	481	51	532	181	38	219	662	89	751
Others	24	299	48	347	74	35	109	373	83	456
Total (a)	291	4278	536	4814	1188	393	1581	5466	929	6395
b) Fruits										
Training and Pruning	22	358	37	395	84	25	109	442	62	504
Layout and Management of Orchards	32	515	45	560	145	39	184	660	84	744
Cultivation of Fruit	32	505	44	549	155	83	238	660	127	787
Management of young plants/orchards	28	374	70	444	108	60	168	482	130	612
Rejuvenation of old orchards	28	395	74	469	106	34	140	501	108	609
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	12	206	17	223	45	26	71	251	43	294
Plant propagation techniques	11	189	22	211	37	28	65	226	50	276



Others	7	119	2	121	26	20	46	145	22	167
Total (b)	172	2661	311	2972	706	315	1021	3367	626	3993
c) Ornamental Plants										
Nursery Management	22	371	39	410	97	22	119	468	61	529
Management of potted plants	2	28	3	31	7	2	9	35	5	40
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	5	79	3	82	25	1	26	104	4	108
Others	6	95	4	99	17	2	19	112	6	118
Total (c)	35	573	49	622	146	27	173	719	76	795
d) Plantation crops										
Production and Management technology	9	135	19	154	48	11	59	183	30	213
Processing and value addition	4	56	15	71	18	10	28	74	25	99
Others	0	0	0	0	0	0	0	0	0	0
Total (d)	13	191	34	225	66	21	87	257	55	312
e) Tuber crops										
Production and Management technology	24	384	60	444	115	23	138	499	83	582
Processing and value addition	4	72	3	75	16	4	20	88	7	95
Others	0	0	0	0	0	0	0	0	0	0
Total (e)	28	456	63	519	131	27	158	587	90	677
f) Spices										
Production and Management technology	20	249	44	293	84	23	107	333	67	400
Processing and value addition	7	109	7	116	24	15	39	133	22	155
Others	5	102	0	102	9	0	9	111	0	111
Total (f)	32	460	51	511	117	38	155	577	89	666
g) Medicinal and Aromatic Plants										
Nursery management	13	191	10	201	63	7	70	254	17	271
Production and management technology	11	216	3	219	48	12	60	264	15	279
Post harvest technology and value addition	10	155	6	161	61	2	63	216	8	224
Others	9	150	0	150	30	0	30	180	0	180
Total (g)	43	712	19	731	202	21	223	914	40	954
GT (a-g)	614	9331	1063	10394	2556	842	3398	11887	1905	13792
III Soil Health and Fertility Mangmt.										
Soil fertility management	60	870	106	976	370	97	467	1240	203	1443
Integrated water management	19	324	51	375	91	32	123	415	83	498
Integrated Nutrient Management	58	879	92	971	357	77	434	1236	169	1405
Production and use of organic inputs	38	560	61	621	216	71	287	776	132	908
Management of Problematic soils	22	270	37	307	179	38	217	449	75	524
Micro nutrient deficiency in crops	21	294	38	332	128	33	161	422	71	493
Nutrient Use Efficiency	15	242	39	281	75	45	120	317	84	401
Balance use of fertilizers	25	366	48	414	178	32	210	544	80	624
Soil and Water Testing	30	400	53	453	186	68	254	586	121	707
Others	14	258	18	276	73	11	84	331	29	360
Total	302	4463	543	5006	1853	504	2357	6316	1047	7363

IV Livestock Production and Mangmt.

Dairy Management	92	1334	203	1537	481	173	654	1815	376	2191
Poultry Management	39	523	77	600	191	106	297	714	183	897
Piggery Management	10	145	21	166	65	9	74	210	30	240
Rabbit Management	4	47	5	52	9	2	11	56	7	63
Animal Nutrition Management	54	858	111	969	272	94	366	1130	205	1335
Disease Management	85	1343	141	1484	405	133	538	1748	274	2022
Feed & fodder technology	62	900	114	1014	275	114	389	1175	228	1403
Production of quality animal products	19	306	54	360	65	29	94	371	83	454
Others	28	422	20	442	118	34	152	540	54	594
Total	393	5878	746	6624	1881	694	2575	7759	1440	9199

V Home Science/Women empowerment

Household food security by kitchen gardening and nutrition gardening	66	160	910	1070	88	333	421	248	1243	1491
Design and development of low/minimum cost diet	26	17	347	364	22	165	187	39	512	551
Designing and development for high nutrient efficiency diet	34	24	486	510	10	100	110	34	586	620
Minimization of nutrient loss in processing	22	57	270	327	21	103	124	78	373	451
Processing and cooking	32	55	437	492	56	115	171	111	552	663
Gender mainstreaming through SHGs	4	14	32	46	10	31	41	24	63	87
Storage loss minimization techniques	15	23	212	235	51	80	131	74	292	366
Value addition	86	144	1092	1236	92	641	733	236	1733	1969
Women empowerment	26	33	366	399	54	65	119	87	431	518
Location specific drudgery reduction technologies	13	0	168	168	20	116	136	20	284	304
Rural Crafts	11	0	204	204	0	53	53	0	257	257
Women and child care	46	22	519	541	15	234	249	37	753	790
Others	18	35	277	312	28	84	112	63	361	424
Total	399	584	5320	5904	467	2120	2587	1051	7440	8491

VI Agril. Engineering

Farm Machinery and its maintenance	32	506	28	534	201	17	218	707	45	752
Installation and maintenance of micro irrigation systems	15	153	16	169	166	32	198	319	48	367
Use of Plastics in farming practices	5	52	13	65	44	12	56	96	25	121
Production of small tools and implements	3	44	3	47	20	5	25	64	8	72
Repair and maintenance of farm machinery and implements	25	417	16	433	100	8	108	517	24	541
Small scale processing and value addition	3	36	7	43	11	7	18	47	14	61
Post Harvest Technology	4	73	14	87	29	7	36	102	21	123
Others	10	151	33	184	55	13	68	206	46	252
Total	97	1432	130	1562	626	101	727	2058	231	2289



VII Plant Protection										
Integrated Pest Management	148	2229	194	2423	812	223	1035	3041	417	3458
Integrated Disease Management	108	1574	193	1767	587	133	720	2161	326	2487
Bio-control of pests and diseases	42	612	62	674	201	48	249	813	110	923
Production of bio control agents and bio pesticides	21	346	43	389	149	28	177	495	71	566
Others	43	562	96	658	163	51	214	725	147	872
Total	362	5323	588	5911	1912	483	2395	7235	1071	8306
VIII Fisheries										
Integrated fish farming	15	248	27	275	129	17	146	377	44	421
Carp breeding and hatchery management	5	74	16	90	32	9	41	106	25	131
Carp fry and fingerling rearing	3	30	7	37	23	26	49	53	33	86
Composite fish culture	24	324	44	368	57	14	71	381	58	439
Hatchery management and culture of freshwater prawn	1	10	2	12	8	0	8	18	2	20
Breeding and culture of ornamental fishes	3	35	23	58	14	13	27	49	36	85
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	1	18	2	20	0	1	1	18	3	21
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	3	26	18	44	14	21	35	40	39	79
Others	1	17	1	18	12	2	14	29	3	32
Total	41	782	140	922	289	103	392	1071	243	1314
IX Production of Inputs at site										
Seed Production	35	528	36	564	146	18	164	674	54	728
Planting material production	12	168	15	183	65	13	78	233	28	261
Bio-agents production	4	54	10	64	35	5	40	89	15	104
Bio-pesticides production	4	56	8	64	18	5	23	74	13	87
Bio-fertilizer production	7	102	18	120	37	14	51	139	32	171
Vermi-compost production	14	194	28	222	107	20	127	301	48	349
Organic manures production	13	224	34	258	75	19	94	299	53	352
Production of fry and fingerlings	1	9	6	15	5	0	5	14	6	20
Production of Bee-colonies and wax sheets	1	15	4	19	4	2	6	19	6	25
Small tools and implements	1	17	5	22	8	2	10	25	7	32
Production of livestock feed and fodder	6	78	10	88	35	15	50	113	25	138
Production of Fish feed	1	16	4	20	12	3	15	28	7	35
Mushroom Production	15	174	41	215	83	40	123	257	81	338
Apiculture	7	93	16	109	56	11	67	149	27	176
Others	7	116	10	126	28	9	37	144	19	163
Total	128	1844	245	2089	714	176	890	2558	421	2979
X Capacity Building and Group Dynamics										
Leadership development	26	348	82	430			0	348	82	430
Group dynamics	21	278	57	335			0	278	57	335
Formation and Management of SHGs	39	461	143	604			0	461	143	604
Mobilization of social capital	9	193	19	212			0	193	19	212

Entrepreneurial development of farmers/youths	30	436	64	500			0	436	64	500
WTO and IPR issues	3	46	5	51			0	46	5	51
Others	17	246	20	266			0	246	20	266
Total	145	2008	390	2398	0	0	0	2008	390	2398
XI Agro-forestry										
Production technologies	19	232	51	283			0	232	51	283
Nursery management	12	180	33	213			0	180	33	213
Integrated Farming Systems	9	112	40	152			0	112	40	152
Others	4	27	23	50			0	27	23	50
Total	44	551	147	698	0	0	0	551	147	698
GRAND TOTAL	3263	43800	10587	54387	14008	5939	19947	57808	16526	74334

B) Farmers and farm women (OFF Campus Trainings)

Thematic area	No. of courses	OFF Campus								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	107	1489	152	1641	651	173	824	2140	325	2465
Resource Conservation Technologies	68	1003	95	1098	364	82	446	1367	177	1544
Cropping Systems	66	1161	94	1255	265	58	323	1426	152	1578
Crop Diversification	45	724	69	793	209	30	239	933	99	1032
Integrated Farming	40	594	81	675	214	41	255	808	122	930
Micro Irrigation/irrigation	29	468	74	542	152	41	193	620	115	735
Seed production	93	1264	191	1455	426	138	564	1690	329	2019
Nursery management	43	609	74	683	335	81	416	944	155	1099
Integrated Crop Management	167	2747	221	2968	752	172	924	3499	393	3892
Soil & water conservatioin	28	454	50	504	148	33	181	602	83	685
Integrated nutrient management	70	1233	108	1341	346	81	427	1579	189	1768
Production of organic inputs	33	538	90	628	201	38	239	739	128	867
Others	69	1071	132	1203	375	176	551	1446	308	1754
Total	858	13355	1431	14786	4438	1144	5582	17793	2575	20368
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	134	2206	209	2415	580	162	742	2786	371	3157
Off-season vegetables	40	599	82	681	197	95	292	796	177	973
Nursery raising	79	1004	131	1135	368	195	563	1372	326	1698
Exotic vegetables	12	182	37	219	70	37	107	252	74	326
Export potential vegetables	6	53	17	70	59	15	74	112	32	144
Grading and standardization	9	161	33	194	27	12	39	188	45	233
Protective cultivation	32	391	53	444	171	90	261	562	143	705
Others	37	532	66	598	150	88	238	682	154	836
Total (a)	349	5128	628	5756	1622	694	2316	6750	1322	8072
b) Fruits										
Training and Pruning	16	214	48	262	83	33	116	297	81	378



Layout and Management of Orchards	54	794	101	895	270	54	324	1064	155	1219
Cultivation of Fruit	45	658	120	778	234	52	286	892	172	1064
Management of young plants/orchards	31	544	49	593	79	11	90	623	60	683
Rejuvenation of old orchards	27	412	68	480	139	36	175	551	104	655
Export potential fruits	4	68	4	72	19	8	27	87	12	99
Micro irrigation systems of orchards	10	130	22	152	67	10	77	197	32	229
Plant propagation techniques	11	152	21	173	101	19	120	253	40	293
Others	10	157	3	160	39	8	47	196	11	207
Total (b)	208	3129	436	3565	1031	231	1262	4160	667	4827
c) Ornamental Plants										
Nursery Management	19	262	26	288	87	23	110	349	49	398
Management of potted plants	4	73	6	79	20	3	23	93	9	102
Export potential of ornamental plants	6	92	10	102	28	15	43	120	25	145
Propagation techniques of Ornamental Plants	8	117	15	132	40	7	47	157	22	179
Others	11	177	15	192	34	4	38	211	19	230
Total (c)	48	721	72	793	209	52	261	930	124	1054
d) Plantation crops										
Production and Management technology	13	215	32	247	54	22	76	269	54	323
Processing and value addition	4	58	9	67	31	12	43	89	21	110
Others	0	0	0	0	0	0	0	0	0	0
Total (d)	17	273	41	314	85	34	119	358	75	433
e) Tuber crops										
Production and Management technology	23	367	26	393	93	17	110	460	43	503
Processing and value addition	1	11	4	15	2	3	5	13	7	20
Others	0	0	0	0	0	0	0	0	0	0
Total (e)	24	378	30	408	95	20	115	473	50	523
f) Spices										
Production and Management technology	24	414	20	434	78	25	103	492	45	537
Processing and value addition	1	12	6	18	1	1	2	13	7	20
Others	3	30	3	33	28	2	30	58	5	63
Total (f)	28	456	29	485	107	28	135	563	57	620
g) Medicinal and Aromatic Plants										
Nursery management	12	191	9	200	53	9	62	244	18	262
Production and management technology	11	189	7	196	40	4	44	229	11	240
Post harvest technology and value addition	5	72	2	74	5	1	6	77	3	80
Others	0	0	0	0	0	0	0	0	0	0
Total (g)	28	452	18	470	98	14	112	550	32	582
GT (a-g)	702	10537	1254	11791	3247	1073	4320	13784	2327	16111
III Soil Health and Fertility Mangmt.										
Soil fertility management	59	950	106	1056	350	88	438	1300	194	1494
Integrated water management	20	285	41	326	100	25	125	385	66	451

Integrated Nutrient Management	72	1149	133	1282	470	95	565	1619	228	1847
Production and use of organic inputs	43	580	106	686	260	49	309	840	155	995
Management of Problematic soils	19	276	39	315	102	26	128	378	65	443
Micro nutrient deficiency in crops	18	273	38	311	113	22	135	386	60	446
Nutrient Use Efficiency	16	290	19	309	86	22	108	376	41	417
Balance use of fertilizers	30	522	68	590	193	59	252	715	127	842
Soil and Water Testing	44	643	71	714	279	59	338	922	130	1052
Others	38	499	63	562	341	142	483	840	205	1045
Total	359	5467	684	6151	2294	587	2881	7761	1271	9032
IV Livestock Production and Mangmt.										
Dairy Management	134	1924	269	2193	686	173	859	2610	442	3052
Poultry Management	37	569	97	666	178	122	300	747	219	966
Piggery Management	11	126	28	154	127	18	145	253	46	299
Rabbit Management	4	58	13	71	11	4	15	69	17	86
Animal Nutrition Management	72	1028	157	1185	271	169	440	1299	326	1625
Disease Management	117	1963	192	2155	478	114	592	2441	306	2747
Feed & fodder technology	87	1248	152	1400	497	180	677	1745	332	2077
Production of quality animal products	18	275	49	324	85	30	115	360	79	439
Others	34	506	75	581	105	25	130	611	100	711
Total	514	7697	1032	8729	2438	835	3273	10135	1867	12002
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	100	101	1359	1460	81	884	965	182	2243	2425
Design and development of low/minimum cost diet	43	113	627	740	63	250	313	176	877	1053
Designing and development for high nutrient efficiency diet	64	73	992	1065	16	441	457	89	1433	1522
Minimization of nutrient loss in processing	42	52	668	720	21	227	248	73	895	968
Processing and cooking	27	16	413	429	7	142	149	23	555	578
Gender mainstreaming through SHGs	20	29	281	310	21	149	170	50	430	480
Storage loss minimization techniques	38	58	585	643	15	240	255	73	825	898
Value addition	91	126	1285	1411	56	634	690	182	1919	2101
Women empowerment	30	17	457	474	8	158	166	25	615	640
Location specific drudgery reduction technologies	40	16	634	650	3	261	264	19	895	914
Rural Crafts	17	5	311	316	9	53	62	14	364	378
Women and child care	58	5	844	849	12	370	382	17	1214	1231
Others	34	19	475	494	15	242	257	34	717	751
Total	604	630	8931	9561	327	4051	4378	957	12982	13939
VI Agril. Engineering										
Farm Machinery and its maintenance	39	607	45	652	154	17	171	761	62	823



Installation and maintenance of micro irrigation systems	14	194	23	217	65	18	83	259	41	300
Use of Plastics in farming practices	7	88	15	103	43	8	51	131	23	154
Production of small tools and implements	4	79	7	86	18	1	19	97	8	105
Repair and maintenance of farm machinery and implements	50	1250	96	1346	259	65	324	1509	161	1670
Small scale processing and value addition	7	94	15	109	26	10	36	120	25	145
Post Harvest Technology	9	67	25	92	105	14	119	172	39	211
Others	22	288	39	327	172	10	182	460	49	509
Total	152	2667	265	2932	842	143	985	3509	408	3917
VII Plant Protection										
Integrated Pest Management	238	3441	307	3748	1293	378	1671	4734	685	5419
Integrated Disease Management	155	2382	251	2633	720	146	866	3102	397	3499
Bio-control of pests and diseases	76	1215	125	1340	307	77	384	1522	202	1724
Production of bio control agents and bio pesticides	28	455	32	487	120	26	146	575	58	633
Others	35	572	37	609	174	71	245	746	108	854
Total	532	8065	752	8817	2614	698	3312	10679	1450	12129
VIII Fisheries										
Integrated fish farming	15	237	35	272	70	11	81	307	46	353
Carp breeding and hatchery management	8	120	7	127	40	9	49	160	16	176
Carp fry and fingerling rearing	5	72	12	84	35	6	41	107	18	125
Composite fish culture	23	281	78	359	192	94	286	473	172	645
Hatchery management and culture of freshwater prawn	2	27	5	32	12	1	13	39	6	45
Breeding and culture of ornamental fishes	1	7	16	23	0	1	1	7	17	24
Portable plastic carp hatchery	1	16	6	22	14	6	20	30	12	42
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	1	18	4	22	12	6	18	30	10	40
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	3	0	24	24	0	39	39	0	63	63
Others	9	159	19	178	16	1	17	175	20	195
Total	68	937	206	1143	391	174	565	1328	380	1708
IX Production of Inputs at site										
Seed Production	44	663	66	729	177	23	200	840	89	929
Planting material production	12	212	25	237	77	19	96	289	44	333
Bio-agents production	3	35	3	38	16	3	19	51	6	57
Bio-pesticides production	7	122	7	129	26	5	31	148	12	160
Bio-fertilizer production	3	48	7	55	12	2	14	60	9	69
Vermi-compost production	19	270	150	420	135	26	161	405	176	581
Organic manures production	10	142	8	150	79	17	96	221	25	246
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	3	43	13	56	16	5	21	59	18	77

Small tools and implements	1	16	12	28	12	8	20	28	20	48
Production of livestock feed and fodder	7	91	25	116	57	16	73	148	41	189
Production of Fish feed	1	20	1	21	0	0	0	20	1	21
Mushroom Production	15	157	111	268	87	53	140	244	164	408
Apiculture	7	71	171	242	43	23	66	114	194	308
Others	14	233	2	235	26	16	42	259	18	277
Total	146	2123	601	2724	763	216	979	2886	817	3703
X Capacity Building and Group Dynamics										
Leadership development	28	384	115	499	117	37	154	501	152	653
Group dynamics	23	301	31	332	147	58	205	448	89	537
Formation and Management of SHGs	46	521	186	707	202	147	349	723	333	1056
Mobilization of social capital	24	321	80	401	132	19	151	453	99	552
Entrepreneurial development of farmers/youths	36	533	71	604	187	54	241	720	125	845
WTO and IPR issues	6	93	3	96	11	6	17	104	9	113
Others	26	430	43	473	59	22	81	489	65	554
Total	189	2583	529	3112	855	343	1198	3438	872	4310
XI Agro-forestry										
Production technologies	30	487	43	530			0	487	43	530
Nursery management	13	164	38	202			0	164	38	202
Integrated Farming Systems	11	196	53	249			0	196	53	249
Others	9	155	13	168			0	155	13	168
Total	63	1002	147	1149	0	0	0	1002	147	1149
GRAND TOTAL	4187	55063	15832	70895	18209	9264	27473	73272	25096	98368

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	189	2716	278	2994	1112	270	1382	3828	548	4376
Resource Conservation Technologies	131	1923	185	2108	647	157	804	2570	342	2912
Cropping Systems	117	2221	198	2419	476	125	601	2697	323	3020
Crop Diversification	87	1403	132	1535	414	51	465	1817	183	2000
Integrated Farming	80	1182	142	1324	388	83	471	1570	225	1795
Micro Irrigation/irrigation	48	700	133	833	258	64	322	958	197	1155
Seed production	196	2625	345	2970	950	260	1210	3575	605	4180
Nursery management	83	1346	148	1494	529	118	647	1875	266	2141
Integrated Crop Management	300	4962	474	5436	1441	397	1838	6403	871	7274
Soil & water conservatioin	56	848	102	950	247	52	299	1095	154	1249
Integrated nutrient management	125	2164	184	2348	624	135	759	2788	319	3107
Production of organic inputs	63	969	140	1109	392	71	463	1361	211	1572
Others	121	1900	245	2145	670	277	947	2570	522	3092
Total	1596	24959	2706	27665	8148	2060	10208	33107	4766	37873
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	213	3410	354	3764	905	285	1190	4315	639	4954



Off-season vegetables	81	1212	143	1355	378	160	538	1590	303	1893
Nursery raising	142	1952	263	2215	609	249	858	2561	512	3073
Exotic vegetables	29	418	58	476	115	79	194	533	137	670
Export potential vegetables	11	141	55	196	97	17	114	238	72	310
Grading and standardization	35	570	73	643	130	46	176	700	119	819
Protective cultivation	68	872	104	976	352	128	480	1224	232	1456
Others	61	831	114	945	224	123	347	1055	237	1292
Total (a)	640	9406	1164	10570	2810	1087	3897	12216	2251	14467
b) Fruits										
Training and Pruning	38	572	85	657	167	58	225	739	143	882
Layout and Management of Orchards	86	1309	146	1455	415	93	508	1724	239	1963
Cultivation of Fruit	77	1163	164	1327	389	135	524	1552	299	1851
Management of young plants/orchards	59	918	119	1037	187	71	258	1105	190	1295
Rejuvenation of old orchards	55	807	142	949	245	70	315	1052	212	1264
Export potential fruits	4	68	4	72	19	8	27	87	12	99
Micro irrigation systems of orchards	22	336	39	375	112	36	148	448	75	523
Plant propagation techniques	22	341	43	384	138	47	185	479	90	569
Others	17	276	5	281	65	28	93	341	33	374
Total (b)	380	5790	747	6537	1737	546	2283	7527	1293	8820
c) Ornamental Plants										
Nursery Management	41	633	65	698	184	45	229	817	110	927
Management of potted plants	6	101	9	110	27	5	32	128	14	142
Export potential of ornamental plants	6	92	10	102	28	15	43	120	25	145
Propagation techniques of Ornamental Plants	13	196	18	214	65	8	73	261	26	287
Others	17	272	19	291	51	6	57	323	25	348
Total (c)	83	1294	121	1415	355	79	434	1649	200	1849
d) Plantation crops										
Production and Management technology	22	350	51	401	102	33	135	452	84	536
Processing and value addition	8	114	24	138	49	22	71	163	46	209
Others	0	0	0	0	0	0	0	0	0	0
Total (d)	30	464	75	539	151	55	206	615	130	745
e) Tuber crops										
Production and Management technology	47	751	86	837	208	40	248	959	126	1085
Processing and value addition	5	83	7	90	18	7	25	101	14	115
Others	0	0	0	0	0	0	0	0	0	0
Total (e)	52	834	93	927	226	47	273	1060	140	1200
f) Spices										
Production and Management technology	44	663	64	727	162	48	210	825	112	937
Processing and value addition	8	121	13	134	25	16	41	146	29	175
Others	8	132	3	135	37	2	39	169	5	174
Total (f)	60	916	80	996	224	66	290	1140	146	1286
g) Medicinal and Aromatic Plants										
Nursery management	25	382	19	401	116	16	132	498	35	533
Production and management technology	22	405	10	415	88	16	104	493	26	519

Post harvest technology and value addition	15	227	8	235	66	3	69	293	11	304
Others	9	150	0	150	30	0	30	180	0	180
Total (g)	71	1164	37	1201	300	35	335	1464	72	1536
GT (a-g)	1316	19868	2317	22185	5803	1915	7718	25671	4232	29903
III Soil Health and Fertility Mangmt.										
Soil fertility management	119	1820	212	2032	720	185	905	2540	397	2937
Integrated water management	39	609	92	701	191	57	248	800	149	949
Integrated Nutrient Management	130	2028	225	2253	827	172	999	2855	397	3252
Production and use of organic inputs	81	1140	167	1307	476	120	596	1616	287	1903
Management of Problematic soils	41	546	76	622	281	64	345	827	140	967
Micro nutrient deficiency in crops	39	567	76	643	241	55	296	808	131	939
Nutrient Use Efficiency	31	532	58	590	161	67	228	693	125	818
Balance use of fertilizers	55	888	116	1004	371	91	462	1259	207	1466
Soil and Water Testing	74	1043	124	1167	465	127	592	1508	251	1759
Others	52	757	81	838	414	153	567	1171	234	1405
Total	661	9930	1227	11157	4147	1091	5238	14077	2318	16395
IV Livestock Production and Mangmt.										
Dairy Management	226	3258	472	3730	1167	346	1513	4425	818	5243
Poultry Management	76	1092	174	1266	369	228	597	1461	402	1863
Piggery Management	21	271	49	320	192	27	219	463	76	539
Rabbit Management	8	105	18	123	20	6	26	125	24	149
Animal Nutrition Management	126	1886	268	2154	543	263	806	2429	531	2960
Disease Management	202	3306	333	3639	883	247	1130	4189	580	4769
Feed & fodder technology	149	2148	266	2414	772	294	1066	2920	560	3480
Production of quality animal products	37	581	103	684	150	59	209	731	162	893
Others	62	928	95	1023	223	59	282	1151	154	1305
Total	907	13575	1778	15353	4319	1529	5848	17894	3307	21201
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	166	261	2269	2530	169	1217	1386	430	3486	3916
Design and development of low/minimum cost diet	69	130	974	1104	85	415	500	215	1389	1604
Designing and development for high nutrient efficiency diet	98	97	1478	1575	26	541	567	123	2019	2142
Minimization of nutrient loss in processing	64	109	938	1047	42	330	372	151	1268	1419
Processing and cooking	59	71	850	921	63	257	320	134	1107	1241
Gender mainstreaming through SHGs	24	43	313	356	31	180	211	74	493	567
Storage loss minimization techniques	53	81	797	878	66	320	386	147	1117	1264
Value addition	177	270	2377	2647	148	1275	1423	418	3652	4070
Women empowerment	56	50	823	873	62	223	285	112	1046	1158
Location specific drudgery reduction technologies	53	16	802	818	23	377	400	39	1179	1218
Rural Crafts	28	5	515	520	9	106	115	14	621	635
Women and child care	104	27	1363	1390	27	604	631	54	1967	2021
Others	52	54	752	806	43	326	369	97	1078	1175
Total	1003	1214	14251	15465	794	6171	6965	2008	20422	22430



VI Agril. Engineering										
Farm Machinery and its maintenance	71	1113	73	1186	355	34	389	1468	107	1575
Installation and maintenance of micro irrigation systems	29	347	39	386	231	50	281	578	89	667
Use of Plastics in farming practices	12	140	28	168	87	20	107	227	48	275
Production of small tools and implements	7	123	10	133	38	6	44	161	16	177
Repair and maintenance of farm machinery and implements	75	1667	112	1779	359	73	432	2026	185	2211
Small scale processing and value addition	10	130	22	152	37	17	54	167	39	206
Post Harvest Technology	13	140	39	179	134	21	155	274	60	334
Others	32	439	72	511	227	23	250	666	95	761
Total	249	4099	395	4494	1468	244	1712	5567	639	6206
VII Plant Protection										
Integrated Pest Management	386	5670	501	6171	2105	601	2706	7775	1102	8877
Integrated Disease Management	263	3956	444	4400	1307	279	1586	5263	723	5986
Bio-control of pests and diseases	118	1827	187	2014	508	125	633	2335	312	2647
Production of bio control agents and bio pesticides	49	801	75	876	269	54	323	1070	129	1199
Others	78	1134	133	1267	337	122	459	1471	255	1726
Total	894	13388	1340	14728	4526	1181	5707	17914	2521	20435
VIII Fisheries										
Integrated fish farming	30	485	62	547	199	28	227	684	90	774
Carp breeding and hatchery management	13	194	23	217	72	18	90	266	41	307
Carp fry and fingerling rearing	8	102	19	121	58	32	90	160	51	211
Composite fish culture	47	605	122	727	249	108	357	854	230	1084
Hatchery management and culture of freshwater prawn	3	37	7	44	20	1	21	57	8	65
Breeding and culture of ornamental fishes	4	42	39	81	14	14	28	56	53	109
Portable plastic carp hatchery	1	16	6	22	14	6	20	30	12	42
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	2	36	6	42	12	7	19	48	13	61
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	6	26	42	68	14	60	74	40	102	142
Others	10	176	20	196	28	3	31	204	23	227
Total	124	1719	346	2065	680	277	957	2399	623	3022
IX Production of Inputs at site										
Seed Production	79	1191	102	1293	323	41	364	1514	143	1657
Planting material production	24	380	40	420	142	32	174	522	72	594
Bio-agents production	7	89	13	102	51	8	59	140	21	161
Bio-pesticides production	11	178	15	193	44	10	54	222	25	247
Bio-fertilizer production	10	150	25	175	49	16	65	199	41	240
Vermi-compost production	33	464	178	642	242	46	288	706	224	930
Organic manures production	23	366	42	408	154	36	190	520	78	598
Production of fry and fingerlings	1	9	6	15	5	0	5	14	6	20

Production of Bee-colonies and wax sheets	4	58	17	75	20	7	27	78	24	102
Small tools and implements	2	33	17	50	20	10	30	53	27	80
Production of livestock feed and fodder	13	169	35	204	92	31	123	261	66	327
Production of Fish feed	2	36	5	41	12	3	15	48	8	56
Mushroom Production	30	331	152	483	170	93	263	501	245	746
Apiculture	14	164	187	351	99	34	133	263	221	484
Others	21	349	12	361	54	25	79	403	37	440
Total	274	3967	846	4813	1477	392	1869	5444	1238	6682
X Capacity Building and Group Dynamics										
Leadership development	54	732	197	929	117	37	154	849	234	1083
Group dynamics	44	579	88	667	147	58	205	726	146	872
Formation and Management of SHGs	85	982	329	1311	202	147	349	1184	476	1660
Mobilization of social capital	33	514	99	613	132	19	151	646	118	764
Entrepreneurial development of farmers/youths	66	969	135	1104	187	54	241	1156	189	1345
WTO and IPR issues	9	139	8	147	11	6	17	150	14	164
Others	43	676	63	739	59	22	81	735	85	820
Total	334	4591	919	5510	855	343	1198	5446	1262	6708
XI Agro-forestry										
Production technologies	49	719	94	813	0	0	0	719	94	813
Nursery management	25	344	71	415	0	0	0	344	71	415
Integrated Farming Systems	20	308	93	401	0	0	0	308	93	401
Others	13	182	36	218	0	0	0	182	36	218
Total	107	1553	294	1847	0	0	0	1553	294	1847
GRAND TOTAL	7465	98863	26419	1E+05	32217	15203	47420	131080	41622	172702



D) Rural Youths (ON Campus Trainings)

Thematic Area	No. of courses	ON Campus								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	47	630	124	754	169	71	240	799	195	994
Training and pruning of orchards	14	170	22	192	82	29	111	252	51	303
Protected cultivation of vegetable crops	32	444	28	472	94	43	137	538	71	609
Commercial fruit production	9	111	38	149	13	13	26	124	51	175
Integrated farming	29	405	50	455	111	25	136	516	75	591
Seed production	89	1095	158	1253	390	133	523	1485	291	1776
Production of organic inputs	40	520	63	583	161	50	211	681	113	794
Planting material production	14	153	19	172	93	29	122	246	48	294
Vermi-culture	27	392	71	463	96	35	131	488	106	594
Mushroom Production	71	940	164	1104	294	91	385	1234	255	1489
Bee-keeping	51	692	87	779	168	49	217	860	136	996
Sericulture	3	46	7	53	8	4	12	54	11	65
Repair and maintenance of farm machinery and implements	20	263	28	291	75	14	89	338	42	380
Value addition	50	157	351	508	83	289	372	240	640	880
Small scale processing	13	43	84	127	10	47	57	53	131	184
Post Harvest Technology	9	42	18	60	23	9	32	65	27	92
Tailoring and Stitching	19	0	252	252	0	60	60	0	312	312
Rural Crafts	22	25	284	309	5	70	75	30	354	384
Production of quality animal products	5	45	45	90	8	15	23	53	60	113
Dairying	38	493	49	542	147	43	190	640	92	732
Sheep and goat rearing	53	657	85	742	286	103	389	943	188	1131
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	2	43	1	44	28	0	28	71	1	72
Rabbit farming	3	32	0	32	14	0	14	46	0	46
Poultry production	31	385	49	434	94	42	136	479	91	570
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	4	63	18	81	19	5	24	82	23	105
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	4	52	0	52	6	0	6	58	0	58
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	5	46	0	46	30	19	49	76	19	95
Fry and fingerling rearing	5	76	4	80	26	4	30	102	8	110
Other	59	661	142	803	281	199	480	942	341	1283
TOTAL	768	8681	2241	10922	2814	1491	4305	11495	3732	15227

E) Rural Youths (OFF Campus trainings)

Thematic Area	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	13	208	47	255	60	26	86	268	73	341
Training and pruning of orchards	6	103	11	114	16	4	20	119	15	134
Protected cultivation of vegetable crops	8	135	17	152	33	18	51	168	35	203
Commercial fruit production	4	57	2	59	18	0	18	75	2	77
Integrated farming	8	109	14	123	22	7	29	131	21	152
Seed production	12	156	25	181	64	20	84	220	45	265
Production of organic inputs	10	123	28	151	33	23	56	156	51	207
Planting material production	2	37	7	44	14	4	18	51	11	62
Vermi-culture	5	69	18	87	27	15	42	96	33	129
Mushroom Production	21	262	88	350	158	128	286	420	216	636
Bee-keeping	7	106	27	133	22	16	38	128	43	171
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	2	40	0	40	0	0	0	40	0	40
Value addition	16	67	99	166	13	68	81	80	167	247
Small scale processing	2	12	12	24	7	9	16	19	21	40
Post Harvest Technology	4	41	14	55	17	12	29	58	26	84
Tailoring and Stitching	3	0	52	52	0	31	31	0	83	83
Rural Crafts	2	10	4	14	6	34	40	16	38	54
Production of quality animal products	4	39	21	60	18	28	46	57	49	106
Dairying	14	158	33	191	62	19	81	220	52	272
Sheep and goat rearing	15	200	49	249	74	50	124	274	99	373
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	1	13	2	15	3	0	3	16	2	18
Rabbit farming	2	0	4	4	6	0	6	6	4	10
Poultry production	11	140	22	162	51	31	82	191	53	244
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	5	63	5	68	35	6	41	98	11	109
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	15	0	15	5	0	5	20	0	20
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Other	11	88	93	181	24	73	97	112	166	278
TOTAL	190	2263	694	2957	796	622	1418	3059	1316	4375



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

Thematic area	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	60	838	171	1009	229	97	326	1067	268	1335
Training and pruning of orchards	20	273	33	306	98	33	131	371	66	437
Protected cultivation of vegetable crops	40	579	45	624	127	61	188	706	106	812
Commercial fruit production	13	168	40	208	31	13	44	199	53	252
Integrated farming	37	514	64	578	133	32	165	647	96	743
Seed production	101	1251	183	1434	454	153	607	1705	336	2041
Production of organic inputs	50	643	91	734	194	73	267	837	164	1001
Planting material production	16	190	26	216	107	33	140	297	59	356
Vermi-culture	32	461	89	550	123	50	173	584	139	723
Mushroom Production	92	1202	252	1454	452	219	671	1654	471	2125
Bee-keeping	58	798	114	912	190	65	255	988	179	1167
Sericulture	3	46	7	53	8	4	12	54	11	65
Repair and maintenance of farm machinery & implements	22	303	28	331	75	14	89	378	42	420
Value addition	66	224	450	674	96	357	453	320	807	1127
Small scale processing	15	55	96	151	17	56	73	72	152	224
Post Harvest Technology	13	83	32	115	40	21	61	123	53	176
Tailoring and Stitching	22	0	304	304	0	91	91	0	395	395
Rural Crafts	24	35	288	323	11	104	115	46	392	438
Production of quality animal products	9	84	66	150	26	43	69	110	109	219
Dairying	52	651	82	733	209	62	271	860	144	1004
Sheep and goat rearing	68	857	134	991	360	153	513	1217	287	1504
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	3	56	3	59	31	0	31	87	3	90
Rabbit farming	5	32	4	36	20	0	20	52	4	56
Poultry production	42	525	71	596	145	73	218	670	144	814
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	9	126	23	149	54	11	65	180	34	214
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	4	52	0	52	6	0	6	58	0	58
Cold water fisheries	1	12	0	12	8	0	8	20	0	20
Fish harvest and processing technology	6	61	0	61	35	19	54	96	19	115
Fry and fingerling rearing	5	76	4	80	26	4	30	102	8	110
Other	70	749	235	984	305	272	577	1054	507	1561
TOTAL	958	10944	2935	13879	3610	2113	5723	14554	5048	19602

F) Extension Functionaries (ON Campus trainings)

Thematic area	No. of courses	ON CAMPUS								
		Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	102	1815	190	2005	476	69	545	2291	259	2550
Integrated Pest Management	84	1617	138	1755	316	51	367	1933	189	2122
Integrated Nutrient management	60	989	59	1048	305	35	340	1294	94	1388
Rejuvenation of old orchards	18	291	18	309	98	7	105	389	25	414
Protected cultivation technology	31	495	100	595	159	22	181	654	122	776
Production and use of organic inputs	37	653	48	701	199	20	219	852	68	920
Care & maintenance of farm machinery & implements	15	204	22	226	91	8	99	295	30	325
Gender mainstreaming through SHGs	15	120	115	235	33	21	54	153	136	289
Formation and Management of SHGs	13	151	50	201	49	19	68	200	69	269
Women and Child care	40	44	606	650	33	241	274	77	847	924
Low cost and nutrient efficient diet designing	28	81	401	482	17	120	137	98	521	619
Group Dynamics and farmers organization	8	179	15	194	23	1	24	202	16	218
Information networking among farmers	3	55	3	58	6	0	6	61	3	64
Capacity building for ICT application	20	357	46	403	60	7	67	417	53	470
Management in farm animals	34	535	63	598	121	71	192	656	134	790
Livestock feed and fodder production	40	592	28	620	144	89	233	736	117	853
Household food security	21	61	225	286	17	57	74	78	282	360
Other	60	991	523	1514	178	175	353	1169	698	1867
TOTAL	629	9230	2650	11880	2325	1013	3338	11555	3663	15218

G) Extension Functionaries (OFF Campus trainings)

Thematic area	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	82	1596	120	1716	338	7	345	1934	127	2061
Integrated Pest Management	71	1325	52	1377	357	26	383	1682	78	1760
Integrated Nutrient management	35	609	40	649	156	16	172	765	56	821
Rejuvenation of old orchards	12	225	36	261	42	7	49	267	43	310
Protected cultivation technology	28	549	20	569	128	3	131	677	23	700
Production and use of organic inputs	26	455	55	510	120	19	139	575	74	649
Care & maintenance of farm machinery & implements	12	210	13	223	71	6	77	281	19	300
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	6	78	22	100	29	19	48	107	41	148
Women and Child care	35	31	481	512	4	218	222	35	699	734



Low cost and nutrient efficient diet designing	11	0	170	170	0	26	26	0	196	196
Group Dynamics and farmers organization	4	66	3	69	7	0	7	73	3	76
Information networking among farmers	1	11	0	11	0	0	0	11	0	11
Capacity building for ICT application	6	149	0	149	12	0	12	161	0	161
Management in farm animals	27	536	34	570	76	15	91	612	49	661
Livestock feed and fodder production	25	458	58	516	75	7	82	533	65	598
Household food security	12	46	199	245	4	70	74	50	269	319
Other	67	1254	250	1504	177	59	236	1431	309	1740
TOTAL	460	7598	1553	9151	1596	498	2094	9194	2051	11245

H) Extension Functionaries (ON + OFF Campus trainings)

Thematic area	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	184	3411	310	3721	814	76	890	4225	386	4611
Integrated Pest Management	155	2942	190	3132	673	77	750	3615	267	3882
Integrated Nutrient management	95	1598	99	1697	461	51	512	2059	150	2209
Rejuvenation of old orchards	30	516	54	570	140	14	154	656	68	724
Protected cultivation technology	59	1044	120	1164	287	25	312	1331	145	1476
Production and use of organic inputs	63	1108	103	1211	319	39	358	1427	142	1569
Care & maintenance of farm machinery & implements	27	414	35	449	162	14	176	576	49	625
Gender mainstreaming through SHGs	15	120	115	235	33	21	54	153	136	289
Formation and Management of SHGs	19	229	72	301	78	38	116	307	110	417
Women and Child care	75	75	1087	1162	37	459	496	112	1546	1658
Low cost and nutrient efficient diet designing	39	81	571	652	17	146	163	98	717	815
Group Dynamics and farmers organization	12	245	18	263	30	1	31	275	19	294
Information networking among farmers	4	66	3	69	6	0	6	72	3	75
Capacity building for ICT application	26	506	46	552	72	7	79	578	53	631
Management in farm animals	61	1071	97	1168	197	86	283	1268	183	1451
Livestock feed and fodder production	65	1050	86	1136	219	96	315	1269	182	1451
Household food security	33	107	424	531	21	127	148	128	551	679
Other	127	2245	773	3018	355	234	589	2600	1007	3607
TOTAL	1089	16828	4203	21031	3921	1511	5432	20749	5714	26463

I) Sponsored Trainings

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Increasing production and productivity of crops	139	5950	873	6823	1639	410	2049	7589	1283	8872
Commercial production of vegetables	70	2632	316	2948	641	189	830	3273	505	3778
Production and value addition										
Fruit Plants	25	890	84	974	204	38	242	1094	122	1216
Ornamental plants	3	78	8	86	7	2	9	85	10	95
Spices crops	3	96	3	99	11	3	14	107	6	1311
Soil health and fertility management	53	2365	284	2649	562	110	672	2927	394	3321
Production of Inputs at site	9	303	46	349	106	36	142	409	82	491
Methods of protective cultivation	11	309	59	368	72	20	92	381	79	3812
Others	26	219	28	247	44	12	56	263	40	303
Total	339	12842	1701	14543	3286	820	4106	16128	2521	18649
Post harvest technology and value addition										
Processing and value addition	28	613	286	899	324	190	514	937	476	1413
Others	6	270	65	335	0	5	5	270	70	340
Total	34	883	351	1234	324	195	519	1207	546	1753
Farm machinery										
Farm machinery, tools and implements	11	388	34	422	86	9	95	474	43	517
Others	9	217	8	225	37	14	51	254	22	276
Total	20	605	42	647	123	23	146	728	65	793
Livestock and fisheries										
Livestock production and management	28	909	196	1105	241	79	320	1150	275	1425
Animal Nutrition Management	19	843	128	971	248	44	292	1091	172	1263
Animal Disease Management	11	429	46	475	103	21	124	532	67	2688
Fisheries Nutrition	2	70	6	76	36	6	42	106	12	118
Fisheries Management	12	211	21	232	117	23	140	328	44	372
Others	3	83	12	95	66	15	81	149	27	490
Total	75	2545	409	2954	811	188	999	3356	597	3953
Home Science										
Household nutritional security	7	71	142	213	14	37	51	85	179	264
Economic empowerment of women	6	0	156	156	0	76	76	0	232	232
Drudgery reduction of women	1	0	24	24	0	6	6	0	30	496
Others	1	17	0	17	0	0	0	17	0	17
Total	15	88	322	410	14	119	133	102	441	543
Agricultural Extension										
Capacity Building and Group Dynamics	33	814	119	933	275	65	340	1089	184	1273
Others	17	474	36	510	85	46	131	559	82	641
Total	50	1288	155	1443	360	111	471	1648	266	1914
GRAND TOTAL	533	18251	2980	21231	4918	1456	6374	23169	4436	27605



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	6	96	7	103	26	9	35	122	16	138
Commercial fruit production	4	66	4	70	22	3	25	88	7	95
Commercial vegetable production	39	171	67	238	45	16	61	216	83	299
Integrated crop management	13	224	19	243	68	5	73	292	24	316
Organic farming	20	314	33	347	77	23	100	391	56	447
Others	14	189	33	222	24	18	42	213	51	264
Total	96	1060	163	1223	262	74	336	1322	237	1559
Post harvest technology and value addition										
Value addition	17	202	128	330	54	31	85	256	159	415
Others	6	35	35	70	10	45	55	45	80	125
Total	23	237	163	400	64	76	140	301	239	540
Livestock and fisheries										
Dairy farming	76	372	75	447	237	70	307	609	145	754
Composite fish culture	59	122	64	186	35	10	45	157	74	231
Sheep and goat rearing	431	305	474	779	97	102	199	402	576	978
Piggery	15	73	14	87	30	16	46	103	30	133
Poultry farming	78	217	88	305	89	49	138	306	137	443
Others	97	75	108	183	20	17	37	95	125	220
Total	756	1164	823	1987	508	264	772	1672	1087	2759
Income generation activities										
Vermicomposting	21	281	47	328	105	43	148	386	90	476
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	3	37	8	45	18	8	26	55	16	71
Repair and maintenance of farm machinery and implements	8	102	27	129	48	8	56	150	35	185
Rural Crafts	1	16	2	18	5	2	7	21	4	25
Seed production	6	26	89	115	12	13	25	38	102	140
Sericulture	25	355	51	406	122	39	161	477	90	567
Mushroom cultivation	3	46	3	49	17	4	21	63	7	70
Nursery, grafting etc.	37	548	49	597	202	70	272	750	119	869
Tailoring, stitching, embroidery, dying etc.	16	152	55	207	58	20	78	210	75	285
Agril. para-workers, para-vet training	5	0	130	130	32	67	99	32	197	229
Others	3	32	2	34	11	0	11	43	2	45
Others	188	109	237	346	19	76	95	128	313	441
Total	319	1776	701	2477	663	353	1016	2439	1054	3493
Agricultural Extension										
Capacity building and group dynamics	44	446	45	491	89	20	109	535	65	600
Others	2	15	7	22	2	0	2	17	7	24
Total	46	461	52	513	91	20	111	552	72	624
Grand Total	1240	4698	1902	6600	1588	787	2375	6286	2689	8975

Annex-II**Details of Projects/Programmes**

S.No.	Name of Project/programme	Period	PI	Co-PI/Nodal Scientist
(A) Network Projects				
1	Impact assessment of popular pulses varieties and technologies disseminated by KVKs through Cluster frontline demonstration of pulses (CFLD-P) in India	2020-23	Dr. S.K. Dubey, ICAR-ATARI, Kanpur	Dr. Raghwendra Singh Dr. Sadhna Pandey Dr. S.K.Singh
2	Impact Assessment of crop residue management technologies on productivity and profitability of rice-wheat system (RWS) in Northern Plains of India	2020-23	Dr. Rajbir Singh, ICAR-ATARI Ludhiana	Dr. Raghwendra Singh Dr. S.K. Dubey
3	Impact of Technological Interventions of KVKs on Socio-Economic Empowerment and Sustainable Livelihood Security of Tribal Farmers	2020-23	Dr. A.K.Singha, Umiam	Dr. Sadhna Pandey
4	Doubling Farmers Income (DFI) Project	2020-23	Dr. Raj Narayan, ICAR-ATARI Jodhpur	Dr. Raghwendra Singh
5	Analysis of agricultural programmes in Aspirational Districts in India	2020-23	Dr. S.K. Roy, ICAR-ATARI, Kolkata	Dr. Sadhna Pandey Dr. S.K.Dubey
6	Impact of climate resilient technology interventions implemented through National Innovations in Climate Resilient Agriculture (NICRA) across different agroecological regions of India	2020-23	Dr. J.V. Prasad, ICAR-ATARI Hyderabad	Dr. S.K.Dubey
7	Impact of ARYA on promotion of agri-preneurship, alternative livelihoods and spin off effect	2020-23	Dr. M.J. Chandre Gowda, ICAR- ATARI Bengaluru	Dr. S.K. Dubey
8	Gender and nutrition project	2020-23	Dr. S.R.K. Singh, ICAR-ATARI, Jabalpur	Dr. Sadhna Pandey
(b) National Programme				
1	Cluster Frontline Demonstrations (CFLD) on Pulses and Oilseeds (DAC, GOI)	2015-16 till date	Dr. S.K. Dubey	Dr. S.K.Singh
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
(C) 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. Seema Yadav
7	Agriculture Skill Council of India (ASCI Programme)	2016-17 till date	Dr. S.K. Dubey	Dr. Seema Yadav



Annex-III

Achievements of Projects & Special Programmes

NICRA (National Innovation on climate Resilient Agriculture)

S.No.	Category	Demo	Area (ha)	
1	NRM	459	372.85	
2	Crop Production	3295	1190.51	
		Demo	Area (ha)	No. of Animals
3	Livestock & Fisheries	883	101.25	2586
		Courses	No. of Farmers benefitted	
4	Capacity building	187	4882	
		No. of programmes	No. of Farmers benefitted	
5	Extension Activities	217	13710	
	Total farmers benefitted	-	1664.61	-
	Total area covered	-	2041.60	-
	Total demonstrations	5408	-	-

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	195	8	128	20	84	10
2	Quality seed and Planting material	18	3	54	6	15	3
3	Poultry	137	7	124	31	88	7
4	Goat farming	136	12	224	1255	89	20
5	Bee keeping	68	7	135	10	67	3
6	Others if any- Vermi Compost	27	5	103	6	23	4
	Total	581	42	768	1328	366	47

(3) IFS (Integrated Farming System)

Sl. No.	Component Name	No. of components established	Area (ha)	Number of Activities		No. of farmers benefitted	
				Demo	Training	Demo	Training
1	Fish cum Dairy	1	0.72	5	12	35	55
2	Fish cum Goat	5	185.00	9	15	148	113
3	Fish cum Poultry	3	0.38	3	7	55	110
4	Cereals + Horticulture	1	5.10	3	12	80	385
5	Horticulture + Bee keeping	2	1.75	3	6	5	140
6	Livestock & Poultry + Crops	1	0.15	3	12	0	325
7	Vermicompost + Crops	2	0.004	6	6	10	137
8	Crop Husbandery + Dairy	1	1.00	1	2	5	5
9	Live Stock Production + Crops + Horticulture	1	0.03	1	2	5	5
	Total	16	194.13	34	74	343	1275
1	Fish cum Duck	4	2 Unit	3	7	7	119
2	Dairy Farming + Crops	2	2 Unit	2	2	10	50
3	Bee Keeping + Crops	2	2 Unit	2	3	12	50
4	Poultry Farming + Horticulture	2	2 Unit	2	2	2	50
5	Mushroom Cultivation + Crops + Horticulture	11	11 Unit	10	2	10	200
	Total	21	19 Unit	19	16	41	469
	Grand Total	37	194.13/19 unit	53	90	384	1744

(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	95
	No. of Farmers	3119
2	Women Farmer Training	
	No. of Trainings/Demons	29
	No. of women farmers	914
3	Rural Youths	
	No. of Trainings/Demons	11
	No. of youths	295
4	Extension Personnel	
	No. of Trainings/Demons	3
	No. of Extension Persons	60
5	Number of farmers involved	
	On- farm trials	66
	Frontline demos	1968
	Mobile agro- advisory to farmers	916
6	Participants in extension activities (No.)	2075
7	Production of seed (q)	2188.00
8	Production of Planting material (No. in lakh)	0.12
9	Production of Livestock strains (No. in lakh)	25
10	Production of fingerlings (No in lakh)	0.8
11	Testing of Soil, water, plant, manures samples (Number)	330

(5) SCSP (Scheduled Cast Sub Plan)

S.No.	Activities	Number
1	Farmers Training	
	No. of Trainings/Demons	288
	No. of Farmers	7621
2	Women Farmer Training	
	No. of Trainings/Demons	89
	No. of women farmers	2073
3	Rural Youths	
	No. of Trainings/Demons	70
	No. of youths	1710
4	Extension Personnel	
	No. of Trainings/Demons	36
	No. of Extension Persons	720
5	Number of farmers involved	
	On- farm trials	380
	Frontline demos	5452
	Mobile agro- advisory to farmers	9624
6	Participants in extension activities (No.)	94049
7	Production of seed (q)	254.82
8	Production of Planting material (No. in lakh)	0.35
9	Testing of Soil, water, plant, manures samples (No.)	2337



(6) Farmer FIRST programme

8.1 Module wise summary at a glance

NRM Module		Crop Module		Horticulture Module		Livestock & Poultry			IFS Model		Extension Activities	
Demonstrations (No.)	No. of Farm Families	Demonstrations (No.)	No. of Farm Families	Demonstrations (No.)	No. of Farm Families	Demonstrations (No.)	No. of Farm Families	No. of Animals	Demonstrations (No.)	No. of Farm Families	No. of Programmes	No. of Farmers
439	439	1731	1685	411	411	1203	448	2788	38	702	168	2735
Total Demosntrations: 3822				Families Covered: 3685					Farmers Benifitted: 2735			

8.2 Module wise details of achievements under Farmers FIRST

Crop Module

S.No.	Name of crop	Yield (q/ha)		Net income (Rs/ha)	
		Farmers practice	Demo	Farmers practice	Demo
1.	Groundnut	17.25	17.25	43009	73766
2.	Wheat	46.00	54.50	80500	110500
3.	Moongbean	15.62	19.05	70513	101810
4.	Sorghum fodder	303	453	17680	26476
5.	Paddy	76.91	99.74	96723	159470
6.	Berseem	798.00	1119	172833	263023
7.	Oats	580.00	721	96000	140044
8.	Chickpea	15.99	16.16	29832	38624
9.	Field Pea	24.85	21.09	37761	60826
10.	Mustard	19.55	24.47	58873	86433

Horticulture module

S.No.	Name of crop	Yield (q/ha)		Net income (Rs/ha)	
		Farmers practice	Demo	Farmers practice	Demo
1.	Bottle Gourd	346	454	175063	249238
2.	Cow Pea	82	114	122851	192664
3.	Brinjal	575	709	360927	461918
4.	Chilli	124	153	191920	253593
5.	Tomato	562	691	226177	287977
6.	Okra	138.27	182.69	151747.5	206692.5
7.	Bell Pepper	240	320	245000	382600

NRM Module

Name of crop	Yield (q/ha)		Net income (Rs/ha)	
	Farmers practice	Demo	Farmers practice	Demo
Guava+ NB Hybrid, Karonda, Citrus, Anola, Kathal, Papaya, Ber, Zero Tillage Moong	11.02	9145	59407	3252162

Livestock & Poultry

Name of animal	Production with unit (litre/kg/no.)		Net income (Rs/ha)	
	Farmers practice	Demo	Farmers practice	Demo
Buffalo	22.38/day	29.24/day	24686	37695
Cow	7.0/day	7.3/day	10009	16335
Poultry	7720/eggs/month	720/eggs/month	12223	446130

Enterprise module

S.No.	Name of enterprise	Net income (Rs/unit)
1	Vermicompost Unit	7095000
2	Mushroom Production	101638
3	Seed Production	102115395.3
4	Processing & Value Addition	220419
5	Marketing by Farmers Group	927807.75

(7) CRM (Crop Residue Management)

9.1 CRM Machinery procured by KVKs

S. No.	Name of the Machine/ Equipment	Name 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
1	Happy Seeder	17	569	360.7	569	399.12	351.28	151.28	344427	543637.25	19.7
2	Reversible M.B. Plough	17	353	166.9	353	222.11	194.87	73.18	171893	263550.5	10.66
3	Paddy Straw Chopper/ Shredder / Mulcher	1	410	167	410	259.94	220.37	106.56	205655	293729	13.67
4	Zero Till Drill	21	0	0	0	0	0	0	0	0	0
5	Rotavator	14	449	292	449	161.5	134	84.16	153550	229052	7.63
6	Tractor	11	241	176	241	102	95.98	11.95	74305	136901	5.09
Total		81	2022	1162.6	2022	1144.67	996.5	427.13	949830	1466870	56.75

9.2 IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants	No. of KVKs
1	Kisan Melas organized	27	16764	23
2	Awareness programmes conducted at Village Panchayat/ Block/ District Level	146	16444	23
3	Mobilization of schools and colleges through essay completion, painting, debate etc.	92	12702	23
4	Demonstration conducted (ha)	2257.80	4072	23
5	Training Programmes conducted	52	1342	23
6	Exposure visits organized	51	2071	23
7	Field /harvest days organized	41	1748	23
Total		2666.8	55143	161

9.3 Other IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of KVKs
1	Advertisement in Print media	123	23
2	Column / Articles in newspaper and magazines etc.	784	23
3	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	218	23
4	Poster/Banner placed	215	23
5	Publicity material - leaflets/ pamphlets etc. distributed	137522	23
6	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	125	23
7	Wall writing	1074	23
Total		140061	23

**(8) DAMU Project (Distt. Agrometeorology Unit)**

S.No.	Activity	No.
1	Number of Ago. Advisory services (AAS)	2840
2	Number of Farmer Awareness Programs (FAP)	58
3	Number of Trainings	28
4	Number of Bulletins	1159
5	Number of Whatsapp Messages	7567
6	Diagnostic Field visit	93
7	Number of Radio talk	4
8	Number of TV talk	19
9	Number of Articles/News published in newspapers	211

(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 11-02, IPU2-43	1179.00	115.00	432.00	F/S II, C/S	320
	Green Gram	Shikha, Shikha (2016), IPM2-3	1120.00	110.00	930.00	F/S, F/S II, C/S	540
	Pigeon pea	IPA-203, RA 1, Rajendra Arhar1 (2015)	1115.00	90.00	860.00	F/S II	348
Total			3414.00	315.00	2222.00	—	1208
Rabi	Chick pea	IPC 2006-77, JG-36, Pusa-3043, RVG 203, RVG-202 (2012), JG-12, JG-36, KGD-1168, Pusa-542	2645.00	177.00	1320.00	F/S, C/S, T/L	976
	Field pea	IPFD 12-2, IPFD 10-12, KPMR 400, IPFD 2014-02, IPF 4-9 (2010), Aman	1850.00	85.00	1580.00	F/S, F/S II, C/S	1210
	Lentil	IPL 220, IPL 316, KLS-122, IPL-220 (2018), DPL-62,	1730.00	140.00	1260.00	F/S, F/S II, C/S, T/L	1170
Total			6225.00	402.00	4160.00	—	3356
Summer	Greengram	Shikha, Varsha, Heera, IPM2-3	252.00	23.00	113.95	F/S, F/S II, C/S	0
Total			252.00	23.00	113.95	-	0
Grand Total			9891.00	740.00	6495.95	-	4564

(10) Skill Development Training (ASCI)

S. No.	Enterprise	Name of QP/ Job role	Duration (hrs)	No. of Courses Organized	No. of participants						Total
					SC/STs		Others		Total		
					Male	Female	Male	Female	Male	Female	
1	Agriculture Crop Production	Small Scale Mushroom Grower	200	1	0	0	16	4	16	4	20
2	Agriculture Crop Production	Honeybee Farmer	210	1	2	0	23	0	25	0	25
3	Animal Husbandry	Back Yard Poultry	210	1	1	0	22	2	23	2	25
4	Agriculture Crop Production	Florist	300	1	0	0	18	7	18	7	25
5	Animal Husbandry	Small dairy farmer	210	1	2	1	19	3	21	4	25
		Total	1130	5	5	1	98	16	103	17	120

(11) NARI Programme (Nutrition- sensitive Agricultural Resources and Innovation)**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 (45 KVKs)	1809	2817	137	1633	157	2116	354	8398	330	18269

Bio- fortified Crop used for nutritional security

Category	Bio Fortified Crop	Variety	Area (ha)	No. of participants
Cereal	Rice	CR Dhan 310, CR DHAN-315, HUR 917, Zinco Rice MS/ DRR 45	13.00	35
Cereal	Wheat	Karan Vandana (DBW 187), WB-02, K-1006, HUW-838 (High zinc and iron), DBW-303, HD-3298, DBW-173, HD-3226,	90.96	449
Millet	Pearlmillet	MPMH 21, Dhan shakti, Kaveri Super Boss	7.65	36
Millet	Finger millet	ML 365, VL-207, BL 352, VLE-279	20.50	69
Pulses	Lentil	IPL 220, Pusa Masoor, Vaibhav	28.65	120
Oil seed	Mustard	PM-31, PM-33	15.70	72
Vegetable	Potato	Kufri Neelkanth	0.20	25
Vegetable	Cauliflower	Pusa - Meghna, Pusa Beta Kesari, Pusa Jamuni, Beta Katke	2.01	70
Vegetable	Radish	Kashi Lohit	0.80	50
Tuber	Sweet Potato	Pusa-Sunahari, Kufri Neelkanth	0.75	100
Total			180.22	1026

(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	204	5
2	Basti	2	80	1	198	5
3	Ballia	2	80	5	329	5
4	Mau	2	80	1	200	5
5	Varanasi	2	80	1	200	5
6	Siddharthnagar	2	80	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	10
10	Barabanki	2	80	1	400	5
11	Chandoli	2	80	1	250	5
12	St. Kabir Nagar	2	80	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	106	1	55	5
19	Banda	2	73	3	300	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	Raibareilly-II	2	80	3	275	6
27	Bijnore	1	80	2	125	5
28	Budaun	2	80	3	210	5
29	Shahjahanpur	2	80	2	170	10
30	Meerut	1	40	1	200	4
31	Muzaffarnagar-II	1	45	1	175	5
32	Bulandshahr	2	100	10	280	5
33	Amroha	2	80	5	320	10
34	Hapur	2	80	5	200	10
35	Sambhal	2	80	4	185	10
36	Bareilly	2	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	8	82	12	261	7
52	Gorakhpur-II	4	160	1	110	5
Total		104	4163	150	11138	339

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	Raibareilly-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, Ghazipur	49	Sultanpur	KNMT, Sultanpur
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
252	22746	52	2084	416	868

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	1.20	41.67	35500.00	2.40	49.00	36833.33	-7.33	1333.33
Sultanpur	Sriram Super 303	0.65	0.65	23500	0.45	0.45	28500.00	0.20	5000.00
Jhansi	Sriram Super 303	0.80	26.40	26325.00	0.80	46.25	32250.00	-19.85	5925.00
Mirzapur	Sriram Super 303	0.06	29.45	15700.00	1.50	35.58	27500.00	-6.13	11800.00
Total/Avg.		2.71	24.54	25256.25	5.15	32.82	31270.83	-8.28	6014.58
Muzaffarnagar	DBW 173	0.80	40.73	21725.00	0.40	48.05	43610.00	-7.33	21885.00
Hapur	DBW 173	5.40	30.23	12750.00	6.00	38.10	37526.67	-7.87	24776.67
Meerut	DBW173	0.40	27.40	19880.00	0.40	46.90	38350.00	-19.50	18470.00
Amroha	DBW-173	5.60	34.00	35485.71	5.20	41.69	44830.77	-7.70	9345.05



Total/Avg.		12.20	33.09	22460.18	12.00	43.69	41079.36	-10.60	18619.18
Bahraich	Bansi	0.20	30.20	18950.00	1.00	52.30	42890.00	-22.10	23940.00
Amethi	Bansi	0.40	31.00	30100.00	0.80	37.00	37150.00	-6.00	7050.00
Muzaffarnagar	Bansi	0.80	29.75	21691.00	0.80	31.35	42957.50	-1.60	21266.50
Total/Avg.		1.40	30.32	23580.33	2.60	40.22	40999.17	-9.90	17418.83
Bahraich	DBW-222	0.20	28.60	24320.00	1.00	53.20	41365.00	-24.60	17045.00
Sitapur	DBW-222	0.40	25.10	26350.00	0.40	36.20	29420.00	-11.10	3070.00
Basti	DBW-222	6.40	25.73	26467.14	6.40	37.08	44112.38	-11.34	17645.24
Total/Avg.		7.00	26.48	25712.38	7.80	42.16	38299.13	-15.68	12586.75
Bahraich	HD-3271	0.20	28.40	26540.00	0.80	52.40	43650.00	-24.00	17110.00
Chandoli	HD-3271	0.40	10.00	20360.00	0.40	31.20	20400.00	-21.20	40.00
Amethi	HD-3271	0.40	14.30	31450.00	0.40	18.50	36800.00	-4.20	5350.00
Total/Avg.		1.00	17.57	26116.67	1.60	34.03	33616.67	-16.47	7500.00
Jhansi	WH-147	0.40	19.25	28250.00	0.40	31.25	35000.00	-12.00	6750.00
Mahoba	WH-147	1.60	25.25	29600.00	2.60	39.65	45950.00	-14.40	16350.00
Total/Avg.		2.00	22.25	28925.00	3.00	35.45	40475.00	-13.20	11550.00
Mahoba	Raj-4120	0.40	30.00	27500.00	0.60	45.00	46500.00	-15.00	19000.00
Jhansi	Raj 4120	0.80	23.00	27675.00	0.80	38.13	33750.00	-15.13	6075.00
Total/Avg.		1.20	26.50	27587.50	1.40	41.56	40125.00	-15.06	12537.50
Muzaffarnagar	DBW 71	0.40	40.50	22115.00	0.40	45.50	43790.00	-5.00	21675.00
Sitapur	DBW 71	0.40	23.40	28750.00	0.40	37.80	36250.00	-14.40	7500.00
Total/Avg.		0.80	31.95	25432.50	0.80	41.65	40020.00	-9.70	14587.50
Unnao	HD3249	0.40	15.50	30500.00	1.00	38.50	38500.00	-23.00	8000.00
Gorakhpur	HD3249	1.20	20.73	18306.67	2.40	48.17	38411.67	-27.43	20105.00
Total/Avg.		1.60	18.12	24403.33	3.40	43.33	38455.83	-25.22	14052.50

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	4.00	12.27	17295.00	4.00	15.53	20825.00	-3.26	3530.00
Muzaffarnagar	RH-725	1.20	18.87	17680.00	1.20	26.32	32698.33	-7.45	15018.33
Mirzapur	RH-725	0.19	18.25	13520.00	0.40	13.35	18780.00	4.90	5260.00
St. Kabir Nagar	RH-725	3.80	11.90	14511.11	3.80	14.98	20955.56	-3.08	6444.44
Total/Avg		5.19	16.34	15237.04	5.40	18.22	24144.63	-1.88	8907.59

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	0.13	9.25	21950	0.13	13.5	25600	-4.25	3650
Mahoba	IPC-06-77	0.13	11.5	48128	0.13	22	38218	-10.5	-9910
Mirzapur	IPC-06-77	0.13	9.88	12750	0.25	17.25	23095	-7.38	10345
Hamirpur	IPC-06-77	5.33	13.66	13000	4.8	17.31	25889.17	-3.65	12889.1
Total/Avg		5.72	11.07	23957	5.31	17.51	28200.54	-6.445	4243.5

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 4-9	4.00	14.61	13000.00	4.00	13.20	15500.00	1.41	2500
Mirzapur	IPF 4-9	0.31	13.18	12625.00	1.37	11.88	13112.50	1.3	487.5
Total/Avg.		4.31	13.89	12812.50	5.37	12.54	14306.25	1.36	1493.75
Lalitpur	Prakash	6.40	15.28	14807.50	6.40	17.47	23557.50	-2.19	8750
Mirzapur	Prakash	0.27	15.28	14807.50	2.00	17.47	23557.50	-2.19	8750
Total/Avg.		6.67	15.27	14807.5	8.4	17.47	23557.5	-2.19	8750

(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	20	20
2	DSR	20	20
3	Training	4	110
4	Kisan Mela	2	100
	Total	46	250

(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	346	295	502	2700

(15) RWHS (Rainwater Harvesting Structures)

Sr. No.	Activities	Number
1	Training programmes	28
2	Demonstration	9
3	Plant materials produced	76500
4	Visit by farmers	18561
5	Visit by officials	141

(16) Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	160	1339
2	Road, drain cleaning	427	5783
3	Garbage disposal	307	2846
4	Door to door awareness	345	5797
5	Awareness campaign	393	12856
6	Nookkad Drama	456	366
7	School Drama	548	577
8	School rally	364	5005
9	Writing painting slogans	235	1182
10	Composting	221	1851
11	Other	254	2686
	Total	3710	40288



Infrastructure Facilities at KVKs

S. No.	KVK District	SAU/ICAR/ Edn/NGO	Year of est.	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) 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	Y	1	Y	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	Y	1	Y	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	Y	2	Y	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	Y	1	Y	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	Y	1	Y	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	Y	1	Y	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	Y	1	Y	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	Y	2	Y	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	Y	1	Y	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	Y	2	Y	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	Y	2	Y	Y	N	N	
12	Barabanki	SAU	2004	12.500	Y	Y	Y	Y	Y	N	Y	Y	-	N	2	-	N	N	N	N	N	Y	N	N	Y	2	Y	Y	N	N	
13	Balrampur	SAU	2005	16.320	Y	Y	Y	Y	Y	Y	N	Y	-	N	2	-	N	N	N	N	N	Y	N	N	Y	1	Y	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	Y	1	Y	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	Y	1	Y	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	Y	1	Y	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	Y	0	Y	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	Y	0	N	N	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	Y	0	N	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	Y	0	N	N	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	Y	0	N	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	Y	0	N	N	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	Y	0	N	N	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	Y	0	N	N	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	Y	0	Y	Y	N	N	
B) BUAT, Banda																															
26	Jhansi	SAU	1984	22.500	Y	Y	N	N	Y	N	Y	N	2	N	1	3	Y	N	N	Y	Y	Y	N	N	Y	1	Y	Y	N	N	
27	Mahoba	SAU	2004	8.000	Y	Y	Y	N	Y	N	Y	N	2	N	2	-	Y	N	N	Y	N	N	N	N	Y	1	N	N	N	N	
28	Hamirpur	SAU	2005	12.700	Y	Y	Y	Y	Y	N	N	N	2	N	2	1	Y	N	N	Y	N	Y	N	N	Y	0	N	N	N	N	

S. No.	KVK District	SAU/ICAR/ Edn/NGO	Year of est.	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		
29	Jalaun	SAU	2005	23.300	Y	Y	Y	N	Y	N	N	Y	2	N	1	-	Y	N	Y	Y	N	N	N	N	Y	1	Y	Y	N	N	
30	Lalitpur	SAU	2005	20.330	Y	Y	N	Y	Y	N	N	Y	2	N	3	2	Y	N	Y	Y	Y	Y	N	N	Y	1	Y	Y	Y	Y	
31	Banda	SAU	2007	8.890	Y	N	Y	N	Y	N	N	N	2	N	3	-	Y	N	Y	Y	N	N	N	N	Y	0	Y	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	N	N	N	N	
A) CSAUAT, Kanpur																															
33	Raebarelli-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	N	Y	1	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	Y	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	N	N	N	N	N
46	Raebarelli-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	N	N
47	Auraiya	SAU	2007	20.679	Y	N	Y	N	Y	N	N	N	2	N	7	-	Y	N	N	N	N	N	N	N	Y	1	Y	Y	Y	N	Y
B) SVPDAT, 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	N	Y	1	Y	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	Y	Y	Y	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	Y	N	Y	1	Y	Y	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	Y	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	Y	Y	N	N
53	Shahjahanpur	SAU	1994	18.314	Y	Y	Y	Y	Y	N	Y	Y	2	N	5	-	N	N	N	N	N	Y	N	N	Y	1	Y	Y	Y	N	N
54	Meerut	SAU	1994	8.820	Y	Y	Y	Y	Y	N	Y	Y	2	N	5	2	Y	N	N	N	N	Y	N	N	Y	1	Y	Y	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	Y	Y	N	N
56	Pilibhit	SAU	1998	12.000	Y	Y	Y	Y	Y	N	Y	Y	1	N	3	-	N	N	N	N	N	N	N	N	Y	1	Y	Y	Y	N	N
57	Baghpat	SAU	2004	12.560	Y	Y	Y	Y	Y	N	N	Y	2	N	3	-	Y	N	N	N	N	N	N	N	Y	1	Y	Y	Y	N	N
58	Moradabad	SAU	2005	17.500	Y	Y	Y	Y	Y	N	Y	Y	1	N	2	-	N	N	N	N	N	Y	N	N	Y	1	Y	Y	Y	N	Y
59	Gautam Budha Nagar	SAU	2005	15.640	Y	Y	Y	Y	Y	N	Y	Y	2	N	3	-	Y	N	N	N	N	N	N	N	Y	1	Y	Y	Y	N	N
60	Bulandshahr	SAU	2004	15.549	N	Y	Y	Y	Y	N	N	Y	2	N	-	-	Y	N	N	N	N	Y	N	N	Y	1	Y	Y	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	N	N	N	N	N



S. No.	KVK District	SAU/ICAR/ Edn/NGO	Year of est.	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		
62	Sambhal	SAU	2018	12,000	N	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	N	Y	0	N	N	N	
64	Amroha	SAU	2018	12,335	N	N	N	N	N	N	N	N	-	N	-	-	N	N	N	N	N	N	N	N	N	Y	0	N	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	N	Y	0	N	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	N	Y	0	N	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	N	Y	0	N	N	N	
A) 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	N	Y	1	Y	N	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	N	Y	1	Y	N	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	N	Y	0	N	N	N	N
71	Kushinagar	ICAR	2005	20,000	Y	Y	Y	N	Y	Y	Y	Y	-	N	2	-	Y	N	N	N	N	N	N	N	N	Y	0	Y	N	Y	Y
72	Sant Ravidas Nagar	ICAR	2008	18,416	Y	Y	Y	N	Y	Y	N	Y	2	N	5	-	Y	N	N	N	N	Y	N	N	N	Y	0	Y	N	N	N
73	Deoria	ICAR	2009	8,160	Y	Y	Y	N	Y	Y	N	Y	1	N	5	-	Y	N	N	N	N	N	N	N	N	Y	0	Y	N	Y	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	N	Y	0	N	N	N	N
B) NGO KVKs																															
75	Sultanpur-I	NGO	1976	73,300	Y	Y	Y	N	Y	N	Y	N	2	N	7	2	Y	N	N	Y	N	N	N	N	N	Y	2	Y	N	N	N
76	Etah	NGO	1992	45,500	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	1	Y	N	N	Y	N	N	N	N	Y	Y	1	Y	N	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	N	N	N	N	Y	1	Y	N	N	N
78	Chitrakoot	NGO	1992	19,650	Y	Y	Y	N	Y	Y	Y	N	3	Y	9	-	Y	N	N	Y	N	N	N	N	N	Y	1	Y	N	Y	N
79	Pratapgarh	NGO	1999	20,110	Y	Y	Y	Y	Y	N	Y	Y	3	Y	5	-	Y	N	N	N	N	N	N	N	N	Y	2	Y	N	N	N
80	Unnao	NGO	1999	20,340	Y	Y	Y	N	Y	N	Y	N	2	N	8	-	Y	N	N	N	N	N	N	N	N	Y	1	Y	N	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	N	Y	Y	2	Y	N	N	N
82	Agra	NGO	2002	20,000	Y	Y	N	Y	Y	Y	Y	Y	2	N	3	-	N	N	N	Y	N	N	N	N	N	Y	1	Y	Y	Y	N
83	Sitapur-I	NGO	2005	12,353	Y	Y	Y	Y	Y	N	Y	Y	2	N	2	-	N	N	N	Y	N	N	N	N	N	Y	1	Y	N	N	Y
84	Kaushambi	NGO	2006	16,500	Y	N	Y	N	Y	N	N	N	2	Y	2	2	N	N	N	Y	N	N	N	N	Y	Y	0	Y	N	N	N
85	Sitapur-II	NGO	2011	21,050	Y	N	Y	N	N	N	N	N	2	N	3	-	N	N	N	Y	Y	N	N	N	N	Y	0	Y	Y	N	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	N	Y	0	Y	Y	N	N
C) Educational KVKs																															
87	Mathura	EDU	1984	21,000	Y	Y	Y	Y	Y	N	Y	Y	1	N	4	1	Y	N	N	Y	N	N	N	N	N	Y	1	Y	N	N	N
88	Mirzapur	EDU	1984	20,000	Y	Y	Y	Y	Y	N	Y	Y	3	N	1	2	N	N	Y	Y	N	N	N	N	Y	Y	1	N	N	N	N
89	Allahabad	EDU	1992	26,700	Y	N	Y	N	Y	N	Y	N	2	N	4	-	N	N	N	Y	N	N	N	N	N	Y	1	Y	Y	N	N
Total																															

Annex-V

KVK wise Staff Position

S. No.	Name of KVK	KVK Category	Name of the Host Organization	Head		SMS		Farm Manager (Computer)		PA (Lab Tech.)		Assistant		Steno		Driver		SSS		Total						
				S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V		
1	Bahraich-I	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	1	1	0	1	1	0	1	1	0	2	1	2	0	16	13	3
2	Basti	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	1	0	1	0	1	1	0	1	2	2	0	2	1	16	13	3
3	Ballia	SAU	NDUAT, Ayodhya	1	1	0	6	4	2	1	0	1	1	0	1	1	0	2	1	1	2	1	1	16	11	5
4	Mau	SAU	NDUAT, Ayodhya	1	0	1	6	6	0	1	1	1	0	1	1	0	1	2	2	0	2	0	2	16	10	6
5	Varanasi	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	1	1	0	1	1	0	2	2	0	2	0	16	15	1		
6	Siddharthnagar	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	2	0	16	13	3			
7	Faizabad	SAU	NDUAT, Ayodhya	1	0	1	6	5	1	1	0	1	1	0	1	1	0	2	2	0	16	13	3			
8	Gorakhpur-I	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	1	1	0	1	1	0	2	1	2	0	16	14	2			
9	Mahraiganj	SAU	NDUAT, Ayodhya	1	1	0	6	2	4	1	0	1	1	0	1	1	0	2	2	0	2	16	9	7		
10	Sonbhadra	SAU	NDUAT, Ayodhya	1	1	0	6	3	3	1	0	1	1	0	1	1	0	2	2	0	16	10	6			
11	Azamgarh-I	SAU	NDUAT, Ayodhya	1	0	1	6	5	1	1	0	1	1	0	1	1	0	2	0	2	16	8	8			
12	Barabanki	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	2	0	16	13	3			
13	Balrampur	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	0	2	16	11	5			
14	Chandoli	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	1	0	1	1	0	1	1	2	1	1	16	13	3			
15	Jaunpur-I	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	2	1	16	14	2			
16	Sant Kabir Nagar	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	2	1	16	12	4			
17	Ambedkar Nagar	SAU	NDUAT, Ayodhya	1	1	0	6	4	2	1	0	1	1	0	1	1	0	2	1	2	16	10	6			
18	Amethi	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	0	1	1	0	1	1	0	2	0	2	1	16	14	2		
19	Bahraich-II	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	1	1	16	11	5			
20	Jaunpur-II	SAU	NDUAT, Ayodhya	1	0	1	6	6	0	1	1	0	1	1	0	1	1	2	1	1	16	12	4			
21	Sultanpur-II	SAU	NDUAT, Ayodhya	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	0	2	16	12	4			
22	Gonda-II	SAU	NDUAT, Ayodhya	1	0	1	6	4	2	1	0	1	1	0	1	1	0	2	0	2	16	9	7			
23	Ghazipur-II	SAU	NDUAT, Ayodhya	1	1	0	6	6	0	1	0	1	1	0	1	1	0	2	0	2	16	10	6			
24	Shravasti	SAU	NDUAT, Ayodhya	1	0	1	6	6	0	1	1	1	0	1	1	0	2	1	2	0	16	8	8			
25	Azamgarh-II	SAU	NDUAT, Ayodhya	1	1	0	6	4	2	1	0	1	1	0	1	1	0	2	0	2	16	7	9			
26	Jhansi	SAU	BUAT, Banda	1	1	0	6	3	3	1	0	1	1	0	1	1	0	2	0	1	16	11	5			
27	Mahoba	SAU	BUAT, Banda	1	0	1	6	4	2	1	0	1	1	0	1	1	0	2	1	1	16	11	5			
28	Hamirpur	SAU	BUAT, Banda	1	1	0	6	6	0	1	1	0	1	1	0	1	0	2	2	0	16	14	2			
29	Jalaun	SAU	BUAT, Banda	1	1	0	6	5	1	1	0	1	1	0	1	1	0	2	2	0	16	14	2			
30	Lalitpur	SAU	BUAT, Banda	1	1	0	6	3	3	1	1	0	1	1	0	1	0	2	2	0	16	12	4			
31	Banda	SAU	BUAT, Banda	1	1	0	6	4	2	1	0	1	1	0	1	1	0	2	2	0	16	12	4			
32	Pravagraj-II	SAU	BUAT, Banda	1	1	0	6	2	4	1	0	1	1	0	1	1	0	2	1	1	16	4	12			
33	Raebareli-I	SAU	CSAUAT, Kanpur	1	1	0	6	4	2	1	0	1	1	0	1	1	0	2	2	0	16	11	5			



S. No.	Name of KVK	KVK Category	Name of the Host Organization	Head		SMS			Farm Manager			PA (Computer)			PA (Lab Tech.)			Assistant			Steno			Driver			SSS			Total			
				S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V			
34	Fatehpur	SAU	CSAUAT, Kanpur	1	1	0	6	5	1	1	0	1	1	1	0	1	0	1	1	0	1	1	0	2	2	0	2	1	1	16	11	5	
35	Aligarh	SAU	CSAUAT, Kanpur	1	1	0	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	1	1	16	10	6	
36	Kannauj	SAU	CSAUAT, Kanpur	1	1	0	6	6	0	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	12	4	
37	Etawah	SAU	CSAUAT, Kanpur	1	1	0	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	10	6	
38	Mainpuri	SAU	CSAUAT, Kanpur	1	1	0	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	11	5	
39	Kanpur Dehat	SAU	CSAUAT, Kanpur	1	1	0	6	4	2	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	1	1	16	11	5
40	Firozabad	SAU	CSAUAT, Kanpur	1	1	0	6	2	4	1	0	1	1	1	0	1	0	1	1	0	1	1	1	0	2	1	2	2	0	16	8	8	
41	Lakhimpur Kheri-I	SAU	CSAUAT, Kanpur	1	1	0	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	2	0	16	8	8		
42	Farrukhabad	SAU	CSAUAT, Kanpur	1	1	0	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	11	5	
43	Hardoi-I	SAU	CSAUAT, Kanpur	1	1	0	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	2	0	16	9	7		
44	Mahamaya Nagar	SAU	CSAUAT, Kanpur	1	1	0	6	5	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	12	4
45	Kasganj	SAU	CSAUAT, Kanpur	1	1	0	6	3	3	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	2	2	0	16	7	9		
46	Raebareilly-II	SAU	CSAUAT, Kanpur	1	1	0	6	3	3	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	4	12	
47	Auraiya	SAU	CSAUAT, Kanpur	1	1	0	6	3	3	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	1	1	16	11	5
48	Mathura	SAU	DUVASU, Mathura	1	0	1	6	3	3	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	2	0	16	10	6
49	Bijnor	SAU	SVPUA&T, Meerut	1	0	1	6	5	1	1	0	1	1	1	0	1	1	0	1	1	0	1	0	1	2	1	2	1	1	16	10	6	
50	Rampur	SAU	SVPUA&T, Meerut	1	0	1	6	5	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	2	1	2	1	1	1	16	9	7	
51	Budaun-I	SAU	SVPUA&T, Meerut	1	1	0	6	5	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	2	1	2	1	1	1	16	11	5	
52	Saharanpur	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	16	12	4	
53	Ghaziabad	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	0	1	1	1	0	1	1	0	1	1	0	1	0	1	2	1	2	2	0	16	13	3	
54	Shahjahanpur	SAU	SVPUA&T, Meerut	1	0	1	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	1	16	11	5	
55	Meerut	SAU	SVPUA&T, Meerut	1	1	0	6	6	0	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	2	0	16	14	2		
56	Muzaffarnagar-I	SAU	SVPUA&T, Meerut	1	0	1	6	4	2	1	0	1	1	1	0	1	1	0	1	1	0	1	0	2	0	2	2	1	1	16	8	8	
57	Pilibhit	SAU	SVPUA&T, Meerut	1	0	1	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	0	2	2	1	1	16	10	6	
58	Baghpat	SAU	SVPUA&T, Meerut	1	1	0	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	0	2	2	1	1	16	10	6	
59	Moradabad-I	SAU	SVPUA&T, Meerut	1	1	0	6	5	1	1	0	1	1	0	1	1	1	0	1	1	0	1	1	0	2	1	2	1	1	16	11	5	
60	Gautam Budha Nagar	SAU	SVPUA&T, Meerut	1	1	0	6	5	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	1	2	1	1	16	11	5	
61	Bulandshahr	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	16	11	5	
62	Shamli	SAU	SVPUA&T, Meerut	1	0	1	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	2	0	16	9	7		
63	Sambhal	SAU	SVPUA&T, Meerut	1	0	1	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	0	2	2	0	2	16	6	10	
64	Badaun-II	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	1	16	10	6	
65	Amroha	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	16	10	6	
66	Hapur	SAU	SVPUA&T, Meerut	1	0	1	6	5	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	1	2	1	1	16	10	6	
67	Muzaffarnagar-II	SAU	SVPUA&T, Meerut	1	1	0	6	4	2	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	0	2	1	1	16	10	6	
68	Moradabad-II	SAU	SVPUA&T, Meerut	1	0	1	6	6	0	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	1	2	0	2	16	10	6	
69	Bareilly	ICAR	ICAR-IVRI, Bareilly	1	0	1	6	3	3	1	1	0	1	0	1	1	1	0	1	1	0	1	1	0	2	1	2	0	2	16	8	8	
70	Lucknow	ICAR	ICAR-IISR, Lucknow	1	1	0	6	4	2	1	0	1	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	0	16	13	3	

S. No.	Name of KVK	KVK Category	Name of the Host Organization	Head		SMS			Farm Manager			PA (Computer)			PA (Lab Tech.)			Assistant			Steno			Driver			SSS			Total			
				S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V			
71	Lakhimpur Kheri-II	ICAR	ICAR-IISR, Lucknow	1	1	0	6	2	4	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	2	16	3	13			
72	Kushinagar	ICAR	ICAR-IIVR,Varanasi	1	0	1	6	4	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	16	7	9			
73	Sant Ravidas Nagar	ICAR	ICAR-IIVR,Varanasi	1	1	0	6	3	3	1	1	0	1	0	1	1	0	1	1	0	1	1	0	1	2	1	2	16	7	9			
74	Deoria	ICAR	ICAR-IIVR,Varanasi	1	0	1	6	3	3	1	1	0	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	16	7	9			
75	Hardoi-II	ICAR	ICAR-CSSRI, Karnal	1	1	0	6	3	3	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	2	16	4	12			
76	Mirzapur	CU	BHU, Varanasi	1	1	0	6	0	6	1	1	0	1	0	1	0	1	1	0	1	1	0	2	1	2	0	2	16	5	11			
77	Sultanpur-I	NGO	KNMT, Sultanpur	1	1	0	6	5	1	1	0	1	0	1	0	1	1	0	1	0	1	1	0	2	2	0	2	1	16	14	2		
78	Etah	NGO	RBS College, Agra	1	1	0	6	5	1	1	0	1	0	1	0	1	1	0	1	0	1	1	0	2	2	0	2	0	16	15	1		
79	Gonda-I	NGO	DRI, New Delhi	1	1	0	6	5	1	1	0	1	0	1	0	1	1	0	1	0	1	1	0	2	2	0	2	0	16	15	1		
80	Chitrakoot	NGO	DRI, New Delhi	1	1	0	6	6	0	1	1	0	1	0	1	0	1	0	1	0	1	1	0	2	2	0	2	0	16	16	0		
81	Allahabad	NGO	SHUATS, Prayagraj	1	1	0	6	5	1	1	0	1	0	1	1	0	1	0	1	0	1	1	0	2	2	0	2	4	0	16	15	1	
82	Pratapgarh	NGO	RASMES, Pratapgarh	1	1	0	6	5	1	1	0	1	0	1	1	0	1	1	0	1	0	1	0	2	1	2	4	0	16	14	2		
83	Unnao	NGO	KRBSES, Unnao	1	1	0	6	5	1	1	0	1	0	1	1	0	1	1	0	1	0	1	0	2	2	0	2	2	0	16	14	2	
84	Ghazipur-I	NGO	DCA, Ghazipur	1	1	0	6	6	0	1	1	0	1	0	1	0	1	1	0	1	0	1	0	2	2	0	2	0	16	15	1		
85	Agra	NGO	RBS College, Agra	1	0	1	6	6	0	1	1	0	1	0	1	0	1	1	0	1	0	1	0	2	2	0	2	0	16	15	1		
86	Sitapur-I	NGO	MVSES, Lucknow	1	0	1	6	3	3	1	1	0	1	0	1	0	1	1	0	1	0	1	0	2	2	0	2	2	0	16	12	4	
87	Kaushambi	NGO	DBRAWS, Prayagraj	1	1	0	6	6	0	1	1	0	1	0	1	0	1	1	0	1	0	1	0	2	2	0	2	1	1	16	15	1	
88	Sitapur-II	NGO	RRDCA, Amethi	1	1	0	6	6	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	2	2	0	2	0	16	16	0	
89	Gorakhpur-II	NGO	GGSS, Gorakhpur	1	1	0	6	5	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	2	2	0	2	2	0	16	14	2	
Total				89	62	27	534	411	123	89	40	49	89	56	33	89	48	41	89	53	36	89	63	26	178	126	52	178	110	72	1424	969	455



Annex-VI

Discipline wise Sr. Scientist & Head

S. No.	Name of Employee	Designation	Discipline	Name of KVK
1	Dr. Neelma Kunwar	Sr. Scientist & Head of KVK	Agricultural Extension	Raebareli-I
2	Dr. Rudra Pratap Narayan Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Raebareli-II
3	Dr. Raksh Pal Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Budaun-I
4	Dr. S. N. Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Basti
5	Dr. V.P. Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Sultanpur-II
6	Dr. Akhilesh Kumar Dubey	Sr. Scientist & Head of KVK	Agricultural Extension	Lucknow
7	Dr. Shree Ram Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Mirzapur
8	Dr. Sushil Kumar	Sr. Scientist & Head of KVK	Agricultural Extension	Mainpuri
9	Dr. Ram Karan Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Moradabad-I
10	Dr. V. Dwivedi	Sr. Scientist & Head of KVK	Agricultural Extension	Sant Ravidas Nagar
11	Dr. Jayendra Bahadur Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Sultanpur-I
12	Dr. Anant Kumar	Sr. Scientist & Head of KVK	Agricultural Extension	Auraiya
13	Dr. Niranjan Lal	Sr. Scientist & Head of KVK	Agricultural Extension	Lakhimpur Kheri-II
14	Sh. Maheshwaree Prasad Singh	Sr. Scientist & Head of KVK	Agricultural Extension	Prayagraj-II
	Total	Sr. Scientist & Head of KVK	Agricultural Extension	14
15	Dr. A.K.Singh	Sr. Scientist & Head of KVK	Agronomy	Mahamaya Nagar
16	Dr. Prabhat Kumar Singh	Sr. Scientist & Head of KVK	Agronomy	Sonbhadra
17	Dr. Ashish Kumar Srivastava	Sr. Scientist & Head of KVK	Agronomy	Aligarh
18	Dr. Rajeev Kumar Singh	Sr. Scientist & Head of KVK	Agronomy	Hamirpur
19	Dr. Ajay Kumar	Sr. Scientist & Head of KVK	Agronomy	Kaushambi
20	Dr. Suresh Kumar Kannaujiya	Sr. Scientist & Head of KVK	Agronomy	Jaunpur-I
21	Dr. Sanjeet Kumar	Sr. Scientist & Head of KVK	Agronomy	Ballia
22	Dr. S.K. Tomar	Sr. Scientist & Head of KVK	Agronomy	Gorakhpur-I
23	Dr. Shyam Singh	Sr. Scientist & Head of KVK	Agronomy	Banda
24	Dr. Hansraj Singh	Sr. Scientist & Head of KVK	Agronomy	Muzaffarnagar-II
25	Dr. Shailesh kumar Singh	Sr. Scientist & Head of KVK	Agronomy	Barabanki
	Total	Sr. Scientist & Head of KVK	Agronomy	11
26	Dr. Lal Chandra Verma	Sr. Scientist & Head of KVK	Animal Science	Azamgarh-II
27	Dr. Narendra Raghubanshi	Sr. Scientist & Head of KVK	Animal Science	Varanasi
28	Dr. S.D.MeCarty	Sr. Scientist & Head of KVK	Animal Science	Allahabad
29	Dr. Om Prakash	Sr. Scientist & Head of KVK	Animal Science	Siddharthnagar
	Total	Sr. Scientist & Head of KVK	Animal Science	4
30	Dr. D. P. Singh	Sr. Scientist & Head of KVK	Entomology	Mahrajanj
	Total	Sr. Scientist & Head of KVK	Entomology	1
31	Dr. Ram Jeet	Sr. Scientist & Head of KVK	Genetics & Plant Breeding	Ambedkar Nagar
	Total	Sr. Scientist & Head of KVK	Genetics & Plant Breeding	1

32	Dr. Nishi Roy	Sr. Scientist & Head of KVK	Home Science	Jhansi
33	Dr. Asha Yadav	Sr. Scientist & Head of KVK	Home Science	Firozabad
	Total	Sr. Scientist & Head of KVK	Home Science	2
34	Dr. M.K. Singh	Sr. Scientist & Head of KVK	Horticulture	Etawah
35	Dr. Omveer Singh	Sr. Scientist & Head of KVK	Horticulture	Meerut
36	Dr. Surendra Kumar Verma	Sr. Scientist & Head of KVK	Horticulture	Balrampur
37	Dr. Arvind Kumar Singh	Sr. Scientist & Head of KVK	Horticulture	Unnao
38	Dr. Santosh Kumar Vishwakarma	Sr. Scientist & Head of KVK	Horticulture	Lakhimpur Kheri-I
39	Dr. U. N. Singh	Sr. Scientist & Head of KVK	Horticulture	Gonda-I
40	Dr. V. K. Sharma	Sr. Scientist & Head of KVK	Horticulture	Farrukhabad
41	Dr. Mohd Mustafa	Sr. Scientist & Head of KVK	Horticulture	Jalaun
42	Dr. Binayak Pratap Shahi	Sr. Scientist & Head of KVK	Horticulture	Bahraich-I
43	Dr. Arvind Kumar Singh	Sr. Scientist & Head of KVK	Horticulture	Fatehpur
44	Dr. Rajesh Kumar Singh	Sr. Scientist & Head of KVK	Horticulture	Gorakhpur-II
45	Dr. Ratan Kumar Anand	Sr. Scientist & Head of KVK	Horticulture	Amethi
46	Dr. Pankaj Nautiyal	Sr. Scientist & Head of KVK	Horticulture	Hardoi-II
	Total	Sr. Scientist & Head of KVK	Horticulture	13
47	Dr. Laxmi Kant	Sr. Scientist & Head of KVK	Plant Pathology	Baghpat
48	Dr. R.S. Chauhan	Sr. Scientist & Head of KVK	Plant Pathology	Agra
	Total	Sr. Scientist & Head of KVK	Plant Pathology	2
49	Dr. Awadhesh Kumar Tiwari	Sr. Scientist & Head of KVK	Plant Protection	Hardoi-I
50	Dr. Ajay Kumar Singh	Sr. Scientist & Head of KVK	Plant Protection	Kanpur Dehat
51	Dr. Akhilesh Kumar Srivastava	Sr. Scientist & Head of KVK	Plant Protection	Pratapgarh
52	Dr. Arvind Kumar Singh	Sr. Scientist & Head of KVK	Plant Protection	Sant Kabir Nagar
53	Dr. Satya Pal Singh	Sr. Scientist & Head of KVK	Plant Protection	Chandoli
54	Dr. Mayank Kumar Rai	Sr. Scientist & Head of KVK	Plant Protection	Gautam Budha Nagar
55	Dr. R. C. Verma	Sr. Scientist & Head of KVK	Plant Protection	Ghazipur-II
56	Dr. Daya Shankar Srivastava	Sr. Scientist & Head of KVK	Plant Protection	Sitapur-II
	Total	Sr. Scientist & Head of KVK	Plant Protection	8
57	Dr. V.K. Kanaujia	Sr. Scientist & Head of KVK	Soil Conservation & Water Management	Kannauj
58	Dr. Mukesh Chand	Sr. Scientist & Head of KVK	Soil Conservation & Water Management	Lalitpur
59	Dr. Manish Singh	Sr. Scientist & Head of KVK	Soil Conservation & Water Management	Etah
	Total	Sr. Scientist & Head of KVK	Soil Conservation & Water Management	3
60	Dr. Chandra Mani Tripathi	Sr. Scientist & Head of KVK	Soil Science	Chitrakoot
61	Dr. Shashi Kant Yadav	Sr. Scientist & Head of KVK	Soil Science	Bahraich-II
62	Dr. KK Singh	Sr. Scientist & Head of KVK	Soil Science	Kasganj
	Total	Sr. Scientist & Head of KVK	Soil Science	3

**Discipline wise Subject Matter Specialists (SMSs)**

S. No.	Name of Employee	Designation	Discipline	Name of KVK
1	Dr. G.P.M. Singh	Subject Matter Specialist/T-6	Agricultural Engineering	Allahabad
2	Dr. Bhaskar Pratap Singh	Subject Matter Specialist/T-6	Agricultural Engineering	Amethi
3	Er. Gaurav Sharma	Subject Matter Specialist/T-6	Agricultural Engineering	Baghpat
4	Dr. Neeraj Kumar Singh	Subject Matter Specialist/T-6	Agricultural Engineering	Bahraich-I
5	Er. Ashok Kumar Pandey	Subject Matter Specialist/T-6	Agricultural Engineering	Balrampur
6	Dr. Dinesh Mishra	Subject Matter Specialist/T-6	Agricultural Engineering	Etah
7	Er. B.S. Chauhan	Subject Matter Specialist/T-6	Agricultural Engineering	Etawah
8	Dr. Shashank Shekhar	Subject Matter Specialist/T-6	Agricultural Engineering	Ghazipur-II
9	Er. Mithilesh Kumar Jha	Subject Matter Specialist/T-6	Agricultural Engineering	Gonda-I
10	Er. Barun Kumar	Subject Matter Specialist/T-6	Agricultural Engineering	Jaunpur-II
11	Dr. Kamal Kant	Subject Matter Specialist/T-6	Agricultural Engineering	Mahamaya Nagar
12	Dr. Sanjay Kumar	Subject Matter Specialist/T-6	Agricultural Engineering	Meerut
13	Sh. Bhaskar Shukla	Subject Matter Specialist/T-6	Agricultural Economics	Pratapgarh
14	Dr. Devesh Kumar	Subject Matter Specialist/T-6	Agricultural Engineering	Sant Kabir Nagar
15	Er. Saqib Parvaze Allaie	Subject Matter Specialist/T-6	Agricultural Engineering	Shamli
16	Er. Ramesh Chandra Maurya	Subject Matter Specialist/T-6	Agricultural Engineering	Unnao
	Total	Subject Matter Specialist/T-6	Agricultural Engineering	16
17	Sh. Sivam Partap	Subject Matter Specialist/T-6	Agricultural Extension	Agra
18	Dr. Netra Pal Malik	Subject Matter Specialist/T-6	Agricultural Extension	Aligarh
19	Dr. Ajay Kumar	Subject Matter Specialist/T-6	Agricultural Extension	Allahabad
20	Dr. Rekha	Subject Matter Specialist/T-6	Agricultural Extension	Ambedkar Nagar
21	Dr. R.P. Singh	Subject Matter Specialist/T-6	Agricultural Extension	Amroha
22	Dr. Pankaj Kumar Meghwal	Subject Matter Specialist/T-6	Agricultural Extension	Badaun-II
23	Dr. Arun Kumar Rajbhar	Subject Matter Specialist/T-6	Agricultural Extension	Bahraich-I
24	Dr. Jai Prakash	Subject Matter Specialist/T-6	Agricultural Extension	Balrampur
25	Dr. Diksha Patel	Subject Matter Specialist/T-6	Agricultural Extension	Banda
26	Dr. Rupan Raghuvanshi	Subject Matter Specialist/T-6	Agricultural Extension	Barabanki
27	Dr. Amit Kumar Singh	Subject Matter Specialist/T-6	Agricultural Extension	Chandoli
28	Ms. Deepti Singh	Subject Matter Specialist/T-6	Agricultural Extension	Etah
29	Dr. Naushad Alam	Subject Matter Specialist/T-6	Agricultural Extension	Fatehpur
30	Sh. Sudhanshu	Subject Matter Specialist/T-6	Agricultural Extension	Gonda-I
31	Dr. Manoj Kumar	Subject Matter Specialist/T-6	Agricultural Extension	Gorakhpur-I
32	Dr. Nitin Kumar Pandey	Subject Matter Specialist/T-6	Agricultural Extension	Hamirpur
33	Dr. Neelam Kumari	Subject Matter Specialist/T-6	Agricultural Extension	Hapur
34	Sh. Mukesh Singh	Subject Matter Specialist/T-6	Agricultural Extension	Hardoi-I
35	Dr. Vister Joshi	Subject Matter Specialist/T-6	Agricultural Extension	Jalaun
36	Dr. Surendra Pratap Sonker	Subject Matter Specialist/T-6	Agricultural Extension	Jaunpur-I
37	Dr. Sushil Kumar	Subject Matter Specialist/T-6	Agricultural Extension	Kannauj
38	Dr. Rajesh Rai	Subject Matter Specialist/T-6	Agricultural Extension	Kanpur Dehat
39	Sh. Amit Kumar Kesari	Subject Matter Specialist/T-6	Agricultural Extension	Kaushambi
40	Dr. Ashok Rai	Subject Matter Specialist/T-6	Agricultural Extension	Kushinagar

41	Dr. Jiya Lal Gupta	Subject Matter Specialist/T-6	Agricultural Extension	Lakhimpur Kheri-I
42	Dr. Vinod Prakash	Subject Matter Specialist/T-6	Agricultural Extension	Mahamaya Nagar
43	Dr. Shiv Prakash Sonkar	Subject Matter Specialist/T-6	Agricultural Extension	Mahoba
44	Dr. Y.K. Sharma	Subject Matter Specialist/T-6	Agricultural Extension	Mathura
45	Dr. Surendra Kumar	Subject Matter Specialist/T-6	Agricultural Extension	Muzaffarnagar-II
46	Dr. Awadhesh Kumar Singh	Subject Matter Specialist/T-6	Agricultural Extension	Pratapgarh
47	Dr. M.P. Singh	Subject Matter Specialist/T-6	Agricultural Extension	Prayagraj-II
48	Sh. Rana Pratap Singh	Subject Matter Specialist/T-6	Agricultural Extension	Raebareli-I
49	Sh. Raghavendra Vikram Singh	Subject Matter Specialist/T-6	Agricultural Extension	Sant Kabir Nagar
50	Dr. R. P. Choudhari	Subject Matter Specialist/T-6	Agricultural Extension	Sant Ravidas Nagar
51	Dr. Narendra Prasad	Subject Matter Specialist/T-6	Agricultural Extension	Shahjahanpur
52	Dr. Shesh Narain Singh	Subject Matter Specialist/T-6	Agricultural Extension	Siddharthnagar
53	Sh. Amar Nath Singh	Subject Matter Specialist/T-6	Agricultural Extension	Sitapur-I
54	Sh. Shailendra Kumar Singh	Subject Matter Specialist/T-6	Agricultural Extension	Sitapur-II
55	Dr. Chandra Kant Tripathi	Subject Matter Specialist/T-6	Agricultural Extension	Sultanpur-I
56	Dr. Rahul Kumar Singh	Subject Matter Specialist/T-6	Agricultural Extension	Varanasi
	Total	Subject Matter Specialist/T-6	Agricultural Extension	40
57	Sh. Umesh Kumar	Subject Matter Specialist/T-6	Agroforestry	Azamgarh-II
58	Dr. Shashank Shekhar Singh	Subject Matter Specialist/T-6	Agroforestry	Bahraich-II
59	Dr. Pradeep Kumar Misra	Subject Matter Specialist/T-6	Agroforestry	Gonda-II
60	Dr. Faiz Mohsin	Subject Matter Specialist/T-6	Agroforestry	Rampur
61	Dr. Sukhdev Singh	Subject Matter Specialist/T-6	Agroforestry	Saharanpur
62	Dr. Tarun Kumar	Subject Matter Specialist/T-6	Agroforestry	Sant Kabir Nagar
63	Dr. Vinay Kumar	Subject Matter Specialist/T-6	Agroforestry	Shravasti
64	Sh. Surya Prakash Mishra	Subject Matter Specialist/T-6	Agroforestry	Sultanpur-I
	Total	Subject Matter Specialist/T-6	Agroforestry	8
65	Dr. Ram Gopal	Subject Matter Specialist/T-6	Agronomy	Ambedkar Nagar
66	Dr. Ashok Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Amethi
67	Dr. A.K. Mishra	Subject Matter Specialist/T-6	Agronomy	Amroha
68	Dr. Sanjay Kumar	Subject Matter Specialist/T-6	Agronomy	Azamgarh-I
69	Dr. Sher Singh	Subject Matter Specialist/T-6	Agronomy	Azamgarh-II
70	Sh. Subham Arya	Subject Matter Specialist/T-6	Agronomy	Badaun-II
71	Dr. Shailendra Singh	Subject Matter Specialist/T-6	Agronomy	Bahraich-II
72	Dr. Somendra Nath	Subject Matter Specialist/T-6	Agronomy	Ballia
73	Dr. Siya Ram	Subject Matter Specialist/T-6	Agronomy	Balrampur
74	Sh. R.L.Sagar	Subject Matter Specialist/T-6	Agronomy	Bareilly
75	Sh. Hariom Mishra	Subject Matter Specialist/T-6	Agronomy	Basti
76	Dr. Shivangi	Subject Matter Specialist/T-6	Agronomy	Bijnor
77	Dr. Sauhard Dubey	Subject Matter Specialist/T-6	Agronomy	Budaun-I
78	Dr. Vivek Raj	Subject Matter Specialist/T-6	Agronomy	Bulandshahr
79	Sh. Ritesh Singh	Subject Matter Specialist/T-6	Agronomy	Chandoli
80	Sh. Vijay Kumar Gautam	Subject Matter Specialist/T-6	Agronomy	Chitrakoot
81	Sh. Kamlesh Meena	Subject Matter Specialist/T-6	Agronomy	Deoria



82	Dr. V.B. Jaiswal	Subject Matter Specialist/T-6	Agronomy	Etawah
83	Sh. Pankaj Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Faizabad
84	Dr. Arvind kumar	Subject Matter Specialist/T-6	Agronomy	Farrukhabad
85	Dr. Jitendra Singh	Subject Matter Specialist/T-6	Agronomy	Fatehpur
86	Dr. Vipin Kumar	Subject Matter Specialist/T-6	Agronomy	Gautam Budha Nagar
87	Dr. D.K. Sachan	Subject Matter Specialist/T-6	Agronomy	Ghaziabad
88	Dr. Shiv Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Ghazipur-I
89	Dr. J. P. Singh	Subject Matter Specialist/T-6	Agronomy	Ghazipur-II
90	Dr. Ankit Tiwari	Subject Matter Specialist/T-6	Agronomy	Gonda-I
91	Dr. Ram Lakhan Singh	Subject Matter Specialist/T-6	Agronomy	Gonda-II
92	Sh. Avanish Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Gorakhpur-II
93	Dr. Shalini	Subject Matter Specialist/T-6	Agronomy	Hamirpur
94	Dr. Abhinav Kumar	Subject Matter Specialist/T-6	Agronomy	Hapur
95	Dr. Traloki Singh	Subject Matter Specialist/T-6	Agronomy	Hardoi-II
96	Dr. Rakesh Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Jaunpur-II
97	Dr. Vimal Raj Yadav	Subject Matter Specialist/T-6	Agronomy	Jhansi
98	Dr. Prana Vir Singh	Subject Matter Specialist/T-6	Agronomy	Kasganj
99	Dr. Pradeep Kumar Bisen	Subject Matter Specialist/T-6	Agronomy	Lakhimpur Kheri-I
100	Dr. Dinesh Tiwari	Subject Matter Specialist/T-6	Agronomy	Lalitpur
101	Sh. Shiv Poojan Yadav	Subject Matter Specialist/T-6	Agronomy	Mahrajganj
102	Dr. Binod Kumar	Subject Matter Specialist/T-6	Agronomy	Mainpuri
103	Dr. Angad Prasad	Subject Matter Specialist/T-6	Agronomy	Mau
104	Dr. Shubham Arya	Subject Matter Specialist/T-6	Agronomy	Meerut
105	Sh. Lalit Kumar	Subject Matter Specialist/T-6	Agronomy	Moradabad-I
106	Sh. Avinash Chauhan	Subject Matter Specialist/T-6	Agronomy	Moradabad-II
107	Dr. Reena	Subject Matter Specialist/T-6	Agronomy	Muzaffarnagar-I
108	Dr. Amarjeet Singh Rath	Subject Matter Specialist/T-6	Agronomy	Pilibhit
109	Dr. Naveen Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Pratapgarh
110	Dr. Rajesh Kumar Kanojia	Subject Matter Specialist/T-6	Agronomy	Raebareli-I
111	Dr. Narendra Singh	Subject Matter Specialist/T-6	Agronomy	Rampur
112	Dr. Ravindra Tomar	Subject Matter Specialist/T-6	Agronomy	Saharanpur
113	Dr. Mahavir Singh	Subject Matter Specialist/T-6	Agronomy	Sambhal
114	Dr. Sundeep Choudhary	Subject Matter Specialist/T-6	Agronomy	Shamli
115	Dr. Anil Pratap Dohrey	Subject Matter Specialist/T-6	Agronomy	Shravasti
116	Dr. Shishir Kant Singh	Subject Matter Specialist/T-6	Agronomy	Sitapur-II
117	Dr. Ajai Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Sultanpur-I
118	Dr. Saurabh Verma	Subject Matter Specialist/T-6	Agronomy	Sultanpur-II
119	Dr. Dheeraj Kumar Tiwari	Subject Matter Specialist/T-6	Agronomy	Unnao
120	Dr. Amitesh Kumar Singh	Subject Matter Specialist/T-6	Agronomy	Varanasi
	Total	Subject Matter Specialist/T-6	Agronomy	56
121	Dr. Sudhir Kumar Rawat	Subject Matter Specialist/T-6	Animal Husbandry	Aligarh
122	Sh. Subodh Yadav	Subject Matter Specialist/T-6	Animal Husbandry	Allahabad
123	Dr. Yogesh Yadav	Subject Matter Specialist/T-6	Animal Husbandry	Etawah

124	Dr. Mahendra Prasad	Subject Matter Specialist/T-6	Animal Husbandry	Farrukhabad
125	Dr. Abhishek Mishra	Subject Matter Specialist/T-6	Animal Husbandry	Gonda-I
126	Dr. Chandra Kesh Rai	Subject Matter Specialist/T-6	Animal Husbandry	Kannauj
127	Dr. Shashikant	Subject Matter Specialist/T-6	Animal Husbandry	Kanpur Dehat
128	Dr. Ashish Kumar Srivastava	Subject Matter Specialist/T-6	Animal Husbandry	Kaushambi
129	Dr. Nagendra Kumar Tripathi	Subject Matter Specialist/T-6	Animal Husbandry	Lakhimpur Kheri-I
	Total	Subject Matter Specialist/T-6	Animal Husbandry	9
130	Sh. Dharendra Singh	Subject Matter Specialist/T-6	Animal Science	Agra
131	Dr. Vidya Sagar	Subject Matter Specialist/T-6	Animal Science	Ambedkar Nagar
132	Dr. Surendra Singh	Subject Matter Specialist/T-6	Animal Science	Amethi
133	Dr. T.B.Yadav	Subject Matter Specialist/T-6	Animal Science	Badaun-II
134	Dr. Manvendra Singh	Subject Matter Specialist/T-6	Animal Science	Banda
135	Dr. Shardul Vikram Lal	Subject Matter Specialist/T-6	Animal Science	Bareilly
136	Dr. D.K. Srivastava	Subject Matter Specialist/T-6	Animal Science	Basti
137	Dr. Prateek Singh	Subject Matter Specialist/T-6	Animal Science	Chandoli
138	Dr. Desh Deepak Singh	Subject Matter Specialist/T-6	Animal Science	Faizabad
139	Dr. Sanjay Kumar Pandey	Subject Matter Specialist/T-6	Animal Science	Fatehpur
140	Dr. Omkar Singh Yadav	Subject Matter Specialist/T-6	Animal Science	Firozabad
141	Dr. Pramod Kumar	Subject Matter Specialist/T-6	Animal Science	Ghaziabad
142	Dr. Dharm Prakash Srivastava	Subject Matter Specialist/T-6	Animal Science	Ghazipur-I
143	Dr. A K Singh	Subject Matter Specialist/T-6	Animal Science	Ghazipur-II
144	Dr. S.K. Singh	Subject Matter Specialist/T-6	Animal Science	Gorakhpur-I
145	Dr. Vivek Pratap Singh	Subject Matter Specialist/T-6	Animal Science	Gorakhpur-II
146	Dr. Surya Pratap Singh Somvanshi	Subject Matter Specialist/T-6	Animal Science	Hamirpur
147	Dr. P.K. Madke	Subject Matter Specialist/T-6	Animal Science	Hapur
148	Dr. Anuj Kumar Gautam	Subject Matter Specialist/T-6	Animal Science	Jalaun
149	Dr. Maroof Ahmad	Subject Matter Specialist/T-6	Animal Science	Jalaun
150	Sh. Amit Kumar Singh	Subject Matter Specialist/T-6	Animal Science	Jaunpur-II
151	Sh. Brij Vikash	Subject Matter Specialist/T-6	Animal Science	Kasganj
152	Sh. Yogesh Yadav	Subject Matter Specialist/T-6	Animal Science	Kushinagar
153	Dr. R.K. Singh	Subject Matter Specialist/T-6	Animal Science	Lucknow
154	Dr. Vijay Chandra	Subject Matter Specialist/T-6	Animal Science	Mahrajanj
155	Dr. D. Swaroop	Subject Matter Specialist/T-6	Animal Science	Mainpuri
156	Dr. Vinay Kumar Singh	Subject Matter Specialist/T-6	Animal Science	Mau
157	Dr. Manoj Kumar	Subject Matter Specialist/T-6	Animal Science	Moradabad-I
158	Dr. Manoj Singh	Subject Matter Specialist/T-6	Animal Science	Saharanpur
159	Dr. Pankaj	Subject Matter Specialist/T-6	Animal Science	Sambhal
160	Dr. Sandeep Singh Kashyap	Subject Matter Specialist/T-6	Animal Science	Sant Kabir Nagar
161	Dr. Anand Singh	Subject Matter Specialist/T-6	Animal Science	Sitapur-II
162	Dr. Diwakar Verma	Subject Matter Specialist/T-6	Animal Science	Sultanpur-I
163	Dr. Gaurav Pandey	Subject Matter Specialist/T-6	Animal Science	Sultanpur-II
164	Sh. Sunil Singh	Subject Matter Specialist/T-6	Animal Science	Unnao
	Total	Subject Matter Specialist/T-6	Animal Science	35



165	Dr. Samir Kumar Pandey	Subject Matter Specialist/T-6	Crop Physiology	Barabanki
166	Dr. M.P. Singh	Subject Matter Specialist/T-6	Crop Physiology	Sonbhadra
	Total	Subject Matter Specialist/T-6	Crop Physiology	2
167	Dr. Athar Husain Warsi	Subject Matter Specialist/T-6	Crop Production	Aligarh
168	Dr. N.C. Tripathi	Subject Matter Specialist/T-6	Crop Production	Shahjahanpur
	Total	Subject Matter Specialist/T-6	Crop Production	2
169	Dr. Mahender Pratap Gautam	Subject Matter Specialist/T-6	Entomology	Azamgarh-II
170	Dr. Abhishek Kumar Yadav	Subject Matter Specialist/T-6	Entomology	Ballia
171	Dr. Chauhan Rinki Kumari	Subject Matter Specialist/T-6	Entomology	Barabanki
	Total	Subject Matter Specialist/T-6	Entomology	3
172	Sh. Pramod kumar	Subject Matter Specialist/T-6	Fisheries	Balrampur
173	Sh. Kamla Shankar Shukla	Subject Matter Specialist/T-6	Fisheries	Chitrakoot
174	Dr. Bonika Pant	Subject Matter Specialist/T-6	Fisheries	Gautam Budha Nagar
175	Dr. Gyandeep Gupta	Subject Matter Specialist/T-6	Fisheries	Gonda-II
176	Sh. Hari Om Verma	Subject Matter Specialist/T-6	Fisheries	Jaunpur-I
177	Dr. Saumya Pandey	Subject Matter Specialist/T-6	Fisheries	Muzaffarnagar-II
178	Dr. Sanjeev Kumar	Subject Matter Specialist/T-6	Fisheries	Shravasti
	Total	Subject Matter Specialist/T-6	Fisheries	7
179	Dr. Satyendra Kumar	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Amethi
180	Dr. Amit Tomar	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Amroha
181	Dr. Archana Devi	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Azamgarh-I
182	Dr. Akhilesh Kumar Yadav	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Azamgarh-II
183	Dr. Vikas Kumar	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Baghpat
184	Dr. Arun Kumar	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Bahraich-II
185	Dr. Manoj Kumar	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Ballia
186	Dr. V.B. Singh	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Basti
187	Dr. Krishna Kumar Singh	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Bijnor
188	Dr. Laxmi Kant Saraswat	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Bulandshahr
189	Dr. Abhay Deep Gautam	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Chandoli
190	Sh. Aman Singh	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Faizabad
191	Dr. Narendra Pratap	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Ghazipur-II
192	Dr. Shivendra Pratap Singh	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Gorakhpur-I
193	Dr. Hasan Tanveer	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Moradabad-II
194	Dr. Deepak Mishra	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Raebareli-I
195	Dr. Ratnakar Pandey	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Sant Kabir Nagar
196	Dr. Umesh	Subject Matter Specialist/T-6	Genetics & Plant Breeding	Shravasti
	Total	Subject Matter Specialist/T-6	Genetics & Plant Breeding	18
197	Ms. Deepti Singh	Subject Matter Specialist/T-6	Home Science	Agra
198	Smt. Nimisha S Natarajan	Subject Matter Specialist/T-6	Home Science	Allahabad
199	Dr. Renu Singh	Subject Matter Specialist/T-6	Home Science	Amethi
200	Dr. Prachi Patel	Subject Matter Specialist/T-6	Home Science	Amroha
201	Dr. Rashmee Yadav	Subject Matter Specialist/T-6	Home Science	Auraiya
202	Sh. Tankit Kumar	Subject Matter Specialist/T-6	Home Science	Badaun-II

203	Smt. Anita Yadav	Subject Matter Specialist/T-6	Home Science	Baghpat
204	Smt. Rernu Arya	Subject Matter Specialist/T-6	Home Science	Bahraich-II
205	Dr. Pragya Ojha	Subject Matter Specialist/T-6	Home Science	Banda
206	Dr. Anjali Verma	Subject Matter Specialist/T-6	Home Science	Basti
207	Dr. Sakuntala Gupta	Subject Matter Specialist/T-6	Home Science	Bijnor
208	Smt. Nidhee Sachan	Subject Matter Specialist/T-6	Home Science	Budaun-I
209	Dr. Kirti Mani Tripathi	Subject Matter Specialist/T-6	Home Science	Bulandshahr
210	Smt. Mamta Tripathi	Subject Matter Specialist/T-6	Home Science	Chitrakoot
211	Ms. Neeraj Singh	Subject Matter Specialist/T-6	Home Science	Etah
212	Dr. Alka Katiyar	Subject Matter Specialist/T-6	Home Science	Farrukhabad
213	Dr. Sadhana Vaish	Subject Matter Specialist/T-6	Home Science	Fatehpur
214	Smt. Vinita Singh	Subject Matter Specialist/T-6	Home Science	Gautam Budha Nagar
215	Dr. Sarita Joshi	Subject Matter Specialist/T-6	Home Science	Ghaziabad
216	Dr. Ragini Dubey	Subject Matter Specialist/T-6	Home Science	Ghazipur-I
217	Dr. Kanchan	Subject Matter Specialist/T-6	Home Science	Gorakhpur-I
218	Dr. Shweta Singh	Subject Matter Specialist/T-6	Home Science	Gorakhpur-II
219	Dr. Phool Kumari	Subject Matter Specialist/T-6	Home Science	Hamirpur
220	Dr. Vinita Singh	Subject Matter Specialist/T-6	Home Science	Hapur
221	Dr. Anjali Sahu	Subject Matter Specialist/T-6	Home Science	Hardoi-II
222	Dr. Rajkumari	Subject Matter Specialist/T-6	Home Science	Jalaun
223	Dr. Poonam Singh	Subject Matter Specialist/T-6	Home Science	Kannauj
224	Dr. Chandra Kala	Subject Matter Specialist/T-6	Home Science	Kannauj
225	Dr. Meenakshi Saxena	Subject Matter Specialist/T-6	Home Science	Kaushambi
226	Dr. Sarita Devi	Subject Matter Specialist/T-6	Home Science	Lalitpur
227	Dr. Veenika Singh	Subject Matter Specialist/T-6	Home Science	Lucknow
228	Dr. Pushpa Devi	Subject Matter Specialist/T-6	Home Science	Mahamaya Nagar
229	Dr. Amrita Singh	Subject Matter Specialist/T-6	Home Science	Mahoba
230	Dr. Akansha Chaudhary	Subject Matter Specialist/T-6	Home Science	Mainpuri
231	Smt. Veena Yadav	Subject Matter Specialist/T-6	Home Science	Meerut
232	Dr. Neha Singh	Subject Matter Specialist/T-6	Home Science	Moradabad-I
233	Dr. Kamya Singh	Subject Matter Specialist/T-6	Home Science	Moradabad-II
234	Dr. Savita Arya	Subject Matter Specialist/T-6	Home Science	Muzaffarnagar-I
235	Dr. Pooja	Subject Matter Specialist/T-6	Home Science	Muzaffarnagar-II
236	Dr. Reena Sethi	Subject Matter Specialist/T-6	Home Science	Pilibhit
237	Smt. Swati Deepak Dubey	Subject Matter Specialist/T-6	Home Science	Pratapgarh
238	Dr. Deepali Chauhan	Subject Matter Specialist/T-6	Home Science	Raebareli-II
239	Dr. Sunita Pant	Subject Matter Specialist/T-6	Home Science	Rampur
240	Ms. Kawita Bhat	Subject Matter Specialist/T-6	Home Science	Saharanpur
241	Dr. Rekha Singh	Subject Matter Specialist/T-6	Home Science	Sant Ravidas Nagar
242	Ms. Vidya Gupta	Subject Matter Specialist/T-6	Home Science	Shahjahanpur
243	Smt. Sunita Mishra	Subject Matter Specialist/T-6	Home Science	Sitapur-II
244	Dr. Reema Devi	Subject Matter Specialist/T-6	Home Science	Sitapur-II
245	Dr. Rashmi Singh	Subject Matter Specialist/T-6	Home Science	Sonbhadra



246	Smt. Neena Saxena	Subject Matter Specialist/T-6	Home Science	Sultanpur-I
247	Dr. Archana Singh	Subject Matter Specialist/T-6	Home Science	Unnao
248	Dr. Pratiksha Singh	Subject Matter Specialist/T-6	Home Science	Varanasi
	Total	Subject Matter Specialist/T-6	Home Science	52
249	Sh. Anupam Dubay	Subject Matter Specialist/T-6	Horticulture	Agra
250	Dr. Dharmendra Yadav	Subject Matter Specialist/T-6	Horticulture	Aligarh
251	Sh. R.P. Singh	Subject Matter Specialist/T-6	Horticulture	Allahabad
252	Dr. Sheesh Pal singh	Subject Matter Specialist/T-6	Horticulture	Amroha
253	Dr. Indrapal Singh	Subject Matter Specialist/T-6	Horticulture	Auraiya
254	Dr. Vijay Kumar Vimal	Subject Matter Specialist/T-6	Horticulture	Azamgarh-I
255	Dr. Amit Choudhary	Subject Matter Specialist/T-6	Horticulture	Baghpat
256	Dr. Pramod Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Bahraich-I
257	Dr. Ashwani Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Barabanki
258	Sh. Ranjeet Singh	Subject Matter Specialist/T-6	Horticulture	Bareilly
259	Dr. Manoj Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Basti
260	Dr. Pratima Gupta	Subject Matter Specialist/T-6	Horticulture	Bijnor
261	Dr. Manish Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Budaun-I
262	Dr. Anant Kumar	Subject Matter Specialist/T-6	Horticulture	Bulandshahr
263	Dr. Maneesh Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Chandoli
264	Sh. Pooshpendra Singh Dixit	Subject Matter Specialist/T-6	Horticulture	Chitrakoot
265	Sh. Puspendra Singh Dixit	Subject Matter Specialist/T-6	Horticulture	Chitrakoot
266	Dr. Rajneesh Srivastava	Subject Matter Specialist/T-6	Horticulture	Deoria
267	Sh. Virendra Singh	Subject Matter Specialist/T-6	Horticulture	Etah
268	Dr. Praveen Kumar Maurya	Subject Matter Specialist/T-6	Horticulture	Faizabad
269	Dr. Sanjay Kumar	Subject Matter Specialist/T-6	Horticulture	Farrukhabad
270	Dr. Subhash Chandrav	Subject Matter Specialist/T-6	Horticulture	Firozabad
271	Dr. Sunil Prajapati	Subject Matter Specialist/T-6	Horticulture	Gautam Budha Nagar
272	Dr. Pallavi Chaudhary	Subject Matter Specialist/T-6	Horticulture	Ghaziabad
273	Dr. Vinod Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Ghazipur-I
274	Dr. Shashank Singh	Subject Matter Specialist/T-6	Horticulture	Ghazipur-II
275	Sh. P. S. Gurjar	Subject Matter Specialist/T-6	Horticulture	Gonda-I
276	Dr. S.P. Singh	Subject Matter Specialist/T-6	Horticulture	Gorakhpur-I
277	Dr. Ajit Kumar Srivastava	Subject Matter Specialist/T-6	Horticulture	Gorakhpur-II
278	Dr. Prashant Kumar	Subject Matter Specialist/T-6	Horticulture	Hamirpur
279	Dr. Virendra Pal	Subject Matter Specialist/T-6	Horticulture	Hapur
280	Dr. D.B. Singh	Subject Matter Specialist/T-6	Horticulture	Hardoi-I
281	Dr. Raajeev Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Jaunpur-I
282	Dr. Vinod Singh	Subject Matter Specialist/T-6	Horticulture	Jaunpur-II
283	Dr. Amar Singh	Subject Matter Specialist/T-6	Horticulture	Kannauj
284	Dr. Arun Kumar Singh	Subject Matter Specialist/T-6	Horticulture	Kanpur Dehat
285	Dr. Prithvi Pal	Subject Matter Specialist/T-6	Horticulture	Kasganj
286	Sh. Jitendra Pratap Singh	Subject Matter Specialist/T-6	Horticulture	Kaushambi
287	Dr. Shamsher Singh	Subject Matter Specialist/T-6	Horticulture	Kushinagar

288	Dr. Mohd Suhail	Subject Matter Specialist/T-6	Horticulture	Lakhimpur Kheri-I
289	Sh. Arya Desh Deepak Misra	Subject Matter Specialist/T-6	Horticulture	Lakhimpur Kheri-II
290	Dr. Archana Dikshit	Subject Matter Specialist/T-6	Horticulture	Lalitpur
291	Dr. V.N. Singh	Subject Matter Specialist/T-6	Horticulture	Lucknow
292	Dr. Brijesh Pandey	Subject Matter Specialist/T-6	Horticulture	Mahoba
293	Dr. Vikas Ranjan Chaudhary	Subject Matter Specialist/T-6	Horticulture	Mainpuri
294	Dr. Braj Mohan	Subject Matter Specialist/T-6	Horticulture	Mathura
295	Dr. Jitendra Kushwaha	Subject Matter Specialist/T-6	Horticulture	Mau
296	Dr. Shiv Shankar Verma	Subject Matter Specialist/T-6	Horticulture	Moradabad-I
297	Dr. Yesh Pal Singh	Subject Matter Specialist/T-6	Horticulture	Muzaffarnagar-II
298	Dr. Saurabh Tomar	Subject Matter Specialist/T-6	Horticulture	Pilibhit
299	Sh. Mahendra Pratap Singh	Subject Matter Specialist/T-6	Horticulture	Pratapgarh
300	Dr. Himanshu Singh	Subject Matter Specialist/T-6	Horticulture	Prayagraj-II
301	Dr. Shailendra Vikram Singh	Subject Matter Specialist/T-6	Horticulture	Raebareli-I
302	Dr. Sanjay Singh	Subject Matter Specialist/T-6	Horticulture	Raebareli-II
303	Dr. Ashish Kumar	Subject Matter Specialist/T-6	Horticulture	Rampur
304	Dr. Shalini Singh	Subject Matter Specialist/T-6	Horticulture	Saharanpur
305	Dr. Jyoti Swaroop	Subject Matter Specialist/T-6	Horticulture	Sambhal
306	Dr. A. K. Chaturvedi	Subject Matter Specialist/T-6	Horticulture	Sant Ravidas Nagar
307	Dr. Mahesh Kumar	Subject Matter Specialist/T-6	Horticulture	Shahjahanpur
308	Dr. Omkar Singh	Subject Matter Specialist/T-6	Horticulture	Shamli
309	Dr. Praveen Kumar Mishra	Subject Matter Specialist/T-6	Horticulture	Siddharthnagar
310	Dr. Sanjeev Rao	Subject Matter Specialist/T-6	Horticulture	Sonbhadra
311	Dr. Dinesh Kumar Yadav	Subject Matter Specialist/T-6	Horticulture	Sultanpur-II
312	Dr. Maneesh Pandey	Subject Matter Specialist/T-6	Horticulture	Varanasi
	Total	Subject Matter Specialist/T-6	Horticulture	64
313	Dr. Raushan Kumar Singh	Subject Matter Specialist/T-6	Livestock Management	Production Budaun-I
314	Dr. Nadeem Shah	Subject Matter Specialist/T-6	Livestock Management	Production Bulandshahr
315	Dr. Sonika Grewal	Subject Matter Specialist/T-6	Livestock Management	Production Meerut
316	Dr. Rajesh Kumar	Subject Matter Specialist/T-6	Livestock Management	Production Moradabad-II
317	Dr. Deepak Sharma	Subject Matter Specialist/T-6	Livestock Management	Production Muzaffarnagar-I
318	Dr. Deepak Kumar	Subject Matter Specialist/T-6	Livestock Management	Production Pilibhit
319	Dr. Shiv Kumar Yadav	Subject Matter Specialist/T-6	Livestock Management	Production Shahjahanpur
	Total	Subject Matter Specialist/T-6	Livestock Management	Production 7
320	Dr. Pradeep Kumar	Subject Matter Specialist/T-6	Plant Pathology	Ambedkar Nagar
321	Dr. Harshita	Subject Matter Specialist/T-6	Plant Pathology	Bahraich-II
322	Dr. Pintoo Kumar	Subject Matter Specialist/T-6	Plant Pathology	Bijnor
	Total	Subject Matter Specialist/T-6	Plant Pathology	3



323	Dr. Ashraf Ali Khan	Subject Matter Specialist/T-6	Plant Protection	Aligarh
324	Dr. Hadi Husain Khan	Subject Matter Specialist/T-6	Plant Protection	Amroha
325	Dr. Ram Palat	Subject Matter Specialist/T-6	Plant Protection	Auraiya
326	Dr. Rudra Pratap Singh	Subject Matter Specialist/T-6	Plant Protection	Azamgarh-I
327	Dr. Sanjay Kumar	Subject Matter Specialist/T-6	Plant Protection	Badaun-II
328	Dr. Shivam Singh	Subject Matter Specialist/T-6	Plant Protection	Baghpat
329	Dr. Pramod Kumar Singh	Subject Matter Specialist/T-6	Plant Protection	Bahraich-I
330	Dr. Chanchal Singh	Subject Matter Specialist/T-6	Plant Protection	Banda
331	Dr. Prem Shanker	Subject Matter Specialist/T-6	Plant Protection	Basti
332	Dr. Satpal Singh	Subject Matter Specialist/T-6	Plant Protection	Budaun-I
333	Dr. Reshu Singh	Subject Matter Specialist/T-6	Plant Protection	Bulandshahr
334	Dr. Manoj Kumar Pandey	Subject Matter Specialist/T-6	Plant Protection	Deoria
335	Dr. B.K. Singh	Subject Matter Specialist/T-6	Plant Protection	Etawah
336	Dr. Ram Gopal	Subject Matter Specialist/T-6	Plant Protection	Faizabad
337	Dr. Abhimanyu	Subject Matter Specialist/T-6	Plant Protection	Farrukhabad
338	Dr. Jagdish Kishore	Subject Matter Specialist/T-6	Plant Protection	Fatehpur
339	Dr. Arvind Kumar	Subject Matter Specialist/T-6	Plant Protection	Ghaziabad
340	Dr. Omkar Singh	Subject Matter Specialist/T-6	Plant Protection	Ghazipur-I
341	Sh. A. K. Pandey	Subject Matter Specialist/T-6	Plant Protection	Gonda-I
342	Dr. Ajeet Singh Vats	Subject Matter Specialist/T-6	Plant Protection	Gonda-II
343	Sh. Shailendra Singh	Subject Matter Specialist/T-6	Plant Protection	Gorakhpur-I
344	Dr. N. K. Yadav	Subject Matter Specialist/T-6	Plant Protection	Hamirpur
345	Dr. C.P.N. Gautam	Subject Matter Specialist/T-6	Plant Protection	Hardoi-I
346	Dr. Manjul Pandey	Subject Matter Specialist/T-6	Plant Protection	Jalaun
347	Dr. Roopesh Singh	Subject Matter Specialist/T-6	Plant Protection	Jaunpur-I
348	Dr. Sandeep Kumar	Subject Matter Specialist/T-6	Plant Protection	Jaunpur-II
349	Dr. Adesh Kumar	Subject Matter Specialist/T-6	Plant Protection	Jhansi
350	Dr. Navin Kumar Sharma	Subject Matter Specialist/T-6	Plant Protection	Kaushambi
351	Dr. Ajay Rai	Subject Matter Specialist/T-6	Plant Protection	Kushinagar
352	Dr. Vivek Kumar Pandey	Subject Matter Specialist/T-6	Plant Protection	Lakhimpur Kheri-II
353	Dr. Deepak Rai	Subject Matter Specialist/T-6	Plant Protection	Lucknow
354	Dr. Sheoraj Singh	Subject Matter Specialist/T-6	Plant Protection	Mahamaya Nagar
355	Dr. Rajanish Chandra Mishra	Subject Matter Specialist/T-6	Plant Protection	Mahoba
356	Sh. Lal Pankaj Kumar Singh	Subject Matter Specialist/T-6	Plant Protection	Mau
357	Dr. Naveen Chandra	Subject Matter Specialist/T-6	Plant Protection	Meerut
358	Dr. Vishvendra	Subject Matter Specialist/T-6	Plant Protection	Moradabad-I
359	Sh. Deepak Kumar	Subject Matter Specialist/T-6	Plant Protection	Moradabad-II
360	Dr. Virendra Singh	Subject Matter Specialist/T-6	Plant Protection	Muzaffarnagar-I
361	Dr. Shailendra Singh Dhaka	Subject Matter Specialist/T-6	Plant Protection	Pilibhit
362	Dr. Awanindra Kumar Tiwari	Subject Matter Specialist/T-6	Plant Protection	Raebareli-II
363	Dr. Anuj Bansal	Subject Matter Specialist/T-6	Plant Protection	Rampur
364	Dr. I.K. Kushwaha	Subject Matter Specialist/T-6	Plant Protection	Saharanpur
365	Dr. Arvind Kumar	Subject Matter Specialist/T-6	Plant Protection	Sambhal

366	Dr. Ajay Kumar	Subject Matter Specialist/T-6	Plant Protection	Shamli
367	Dr. Rohit Kumar Pandey	Subject Matter Specialist/T-6	Plant Protection	Shravasti
368	Dr. Pradeep Kumar	Subject Matter Specialist/T-6	Plant Protection	Siddharthnagar
369	Dr. Vinod Kumar Singh	Subject Matter Specialist/T-6	Plant Protection	Sitapur-I
370	Sh. Himanshu Shekhar	Subject Matter Specialist/T-6	Plant Protection	Sultanpur-II
371	Dr. Jay Kumar Yadav	Subject Matter Specialist/T-6	Plant Protection	Unnao
372	Dr. Naveen Kumar Singh	Subject Matter Specialist/T-6	Plant Protection	Varanasi
	Total	Subject Matter Specialist/T-6	Plant Protection	50
373	Sh. Sunil Kumar	Subject Matter Specialist/T-6	Seed Technology	Bahraich-I
374	Dr. Vinay Kumar Churasiya	Subject Matter Specialist/T-6	Seed Technology	Barabanki
375	Sh. Lal Bahadur Gaur	Subject Matter Specialist/T-6	Seed Technology	Jaunpur-I
376	Dr. Himanshu Rai	Subject Matter Specialist/T-6	Seed Technology	Mau
377	Dr. Sarvjeet	Subject Matter Specialist/T-6	Seed Technology	Siddharthnagar
378	Dr. Koteshi Lamani	Subject Matter Specialist/T-6	Seed Technology	Sultanpur-II
379	Sh. Shriprakash Singh	Subject Matter Specialist/T-6	Seed Technology	Varanasi
	Total	Subject Matter Specialist/T-6	Seed Technology	7
380	Dr. Sandeep Singh	Subject Matter Specialist/T-6	Soil Science	Agra
381	Dr. Devesh Pathak	Subject Matter Specialist/T-6	Soil Science	Amethi
382	Dr. Randhir Nayak	Subject Matter Specialist/T-6	Soil Science	Azamgarh-I
383	Dr. Phool Chand	Subject Matter Specialist/T-6	Soil Science	Badaun-II
384	Dr. Nandan Singh	Subject Matter Specialist/T-6	Soil Science	Bahraich-I
385	Dr. Anil Kumar	Subject Matter Specialist/T-6	Soil Science	Ballia
386	Sh. Jagvir Singh	Subject Matter Specialist/T-6	Soil Science	Balrampur
387	Dr. Hanuman Prasad Pandey	Subject Matter Specialist/T-6	Soil Science	Chandoli
388	Dr. Virendra Singh	Subject Matter Specialist/T-6	Soil Science	Etah
389	Dr. Mohan Singh	Subject Matter Specialist/T-6	Soil Science	Gautam Nagar Budha
390	Smt. Akansha Singh	Subject Matter Specialist/T-6	Soil Science	Ghaziabad
391	Dr. Dharmendra Kumar Singh	Subject Matter Specialist/T-6	Soil Science	Ghazipur-I
392	Dr. A K Rai	Subject Matter Specialist/T-6	Soil Science	Ghazipur-II
393	Dr. Sandeep Prakash Upadhyay	Subject Matter Specialist/T-6	Soil Science	Gorakhpur-II
394	Dr. Priya Vishishtha	Subject Matter Specialist/T-6	Soil Science	Hardoi-I
395	Dr. Trilok Nath Rai	Subject Matter Specialist/T-6	Soil Science	Hardoi-II
396	Sh. Dinesh Kumar	Subject Matter Specialist/T-6	Soil Science	Jaunpur-II
397	Dr. Atik Ahmad	Subject Matter Specialist/T-6	Soil Science	Jhansi
398	Dr. Arvind Kumar	Subject Matter Specialist/T-6	Soil Science	Kannauj
399	Dr. Khalil Khan	Subject Matter Specialist/T-6	Soil Science	Kanpur Dehat
400	Sh. Manoj Kumar Singh	Subject Matter Specialist/T-6	Soil Science	Kaushambi
401	Dr. Jagdish Mishra	Subject Matter Specialist/T-6	Soil Science	Mahamaya Nagar
402	Dr. R. N. Singh	Subject Matter Specialist/T-6	Soil Science	Mainpuri
403	Dr. Ravindra Kumar Rajput	Subject Matter Specialist/T-6	Soil Science	Mathura
404	Dr. Chandan Singh	Subject Matter Specialist/T-6	Soil Science	Mau
405	Dr. Rakesh Tiwari	Subject Matter Specialist/T-6	Soil Science	Meerut
406	Dr. Ravindra Kumar	Subject Matter Specialist/T-6	Soil Science	Moradabad-II



407	Dr. Ram Bharose	Subject Matter Specialist/T-6	Soil Science	Shravasti
408	Sh. Pravesh Kumar	Subject Matter Specialist/T-6	Soil Science	Siddharthnagar
409	Dr. Umesh Kumar Singh	Subject Matter Specialist/T-6	Soil Science	Sitapur-I
410	Sh. Sachin Pratap Tomar	Subject Matter Specialist/T-6	Soil Science	Sitapur-II
411	Smt. Ratna Sahay	Subject Matter Specialist/T-6	Soil Science	Unnao
	Total	Subject Matter Specialist/T-6	Soil Science	32

Annex-VII

HRD, ATIC AND TECHNOLOGY BACKSTOPPING BY DIRECTORATES OF EXTENSION

(1) HRD (HUMAN RESOURCE DEVELOPMENT)

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants
SVPUA&T, Meerut	Capacity Building Program for newly recruited SMSs	1	55
	Induction Program on Agricultural Marketing for Newly appointed SMSs of KVKs	1	55
	Extension methodology and motivational skills for extension personnel	1	49
	Participatory planning and execution of technology application by the KVKs of UP	1	48
	Creation of Agri-Business Ecosystem Through Farmer Producer Organizations	1	7
	Effective communication skills for extension personnel	1	20
	Soft skills for extension professionals	1	20
	Production and Protection Technologies of Horticultural Crops	1	33
	Total	8	287
BUAT, Banda	Skill oriented training for KVK Staff	9	90
	Total	9	90
ANDUAT, Ayodhya	Content Management System	1	86
	Natural Farming	1	25
	Millet Production and Value Addition	1	25
	Smart Agriculture	1	25
	Total	4	161
CSAUAT, Kanpur	HRD Training Programme on Natural Farming: "Bhartiya Prakritik Krishi Padhatti for KVK Scientists	1	30
	Recent Plant Protection measure in Agri-horticultural Crops for KVKs	1	22
	HRD Training for Scientists	1	36
	Total	3	88
	Grand Total	24	626

(2) ATIC (AGRICULTURAL TECHNOLOGY INFORMATION CENTRE)

2.1) Details on Farmer's visit

S.No.	Purpose of visit	Total
1	Technology Information	8461
2	Technology Products	2228
3	Others if any pl. specify	328
	Total	11017

**2.2) Facilities in the ATIC which are in operation**

S.No.	Particulars	Availability (Please $\sqrt$ mark)	Number of ATICs
1	Reception counter	$\sqrt$	3
2	Exhibition / technology museum	$\sqrt$	3
3	Touch screen Kiosk	$\sqrt$	2
4	Cafeteria	$\sqrt$	3
5	Sales counter	$\sqrt$	3
6	Farmer's feedback register	$\sqrt$	3
7	Others if any (please specify)	$\sqrt$	1

2.3) Technology information provided**(a) Details on technology information**

S. No.	Information category	Total number of farmers benefitted	Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
1	Kisan Call Centre / other Phone calls from farmers	7662	813	2555	2377	281	393	298	699
2	Video shows	1239	51	118	163	53	51	31	73
3	Letters received	180	10	25	30	47	3	24	38
4	Letters replied	171	11	24	31	42	2	24	34
5	Training to farmers / technocrats / students	4095	1145	1010	787	287	170	325	339
	Total	13347	2030	3732	3388	710	619	702	1183

(b) Publications

S.No.	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefitted
1	Technical bulletins	7083	182338	7080
2	Technology Inventory	2500	312500	2500
3	Others if any (please specify)	11001	220000	11000

(c) Technology Products provided

S.No.	Particulars	Unit of quantity	Quantity/Nos.	Value in Rs.	No. of farmers benefitted
1	Seeds	Quintal	791.92	3719330	2459
2	Planting materials	Numbers	50557	154000	0
3	Livestock	Numbers	28	46500	5
4	Poultry birds	Numbers	114	114000	10
5	Bio-products	Quintals	75	12356	10
6	Others pl. specify		7163904	656371	268

(d) Technology services provided

S.No.	Particulars	Number of farmers benefitted
1	Soil and water testing	1367
2	Plant diagnostics	1154
3	Details about the services to line Departments	5233

(3) TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

(a) Workshops / meetings organized

Name of SAU	Details of workshop/meeting conducted	No. of KVKs participated	No. of Participants attended
SVPUAT, Meerut	Review meeting of KVK	20	20
	Extension Council meeting	20	20
	Content management workshop	20	20
	Prakarti Kheti se krishi smridhi	20	20
	Orientation Prog.	20	47
	Capacity Building and Review of activities	20	20
	Total	20	147
NDUAT, Meerut	Review meeting of KVKs for the progress of CRM, RKVY, NICRA, etc	18	45
	Review meeting on KVK budget and manpower	25	52
	Review meeting of KVKs for organizing Kisan Mela and other flagship activities	25	56
	Review meeting of KVKs	25	54
	Review meet on Kisan Mela	25	64
	Kisan Mela review meet	50	98
	Online review meeting of rabi harvest and kharif planning alongwith other projects	25	55
	Online review meeting of all projects review meet	25	189
	Online presentation of annual progress reports for Annual Zonal Workshop	25	52
	Online review meeting on the preparation of plantation on Van Mahotsava - 2023	25	74
	Online review meeting on the preparation of rabi seed production programme - 2023-24	25	115
	Virtual meeting on Kisan Mela 2023 Review Meet	25	83
	Online Review meeting of Kisan Mela	25	46
	Review meeting of KVKs regarding the preparation of Annual Action Plan - 2024	25	74
	SMSs Progress review meeting at Directorate of Extn.	25	132
	Total	25	1199
BUAT, Banda	Extension Council	7	60
	Monthly Meeting	7	28
	Kisan Mela 2023	8	10000
	Total	8	10088
CSAUAT, Kanpur	8 Monthly Meeting	15	178
	12 Chandra Shekhar Krishak Samiti	0	288
	1 Millets Workshop	15	300
	1 Natural Farming Workshop	15	228
	2 online Monthly Meeting	15	42
	1 Pre review Annual zonal workshop meeting	15	26
	1 Pre review Mid term workshop meeting	15	31
	2 PRA review meeting	8	22
	2 PRA review meeting	8	19
	Total	15	1134
Grand Total		68	12568

**(b) Visits made by DE / Officials in the Directorate to KVKs**

S. No.	Particulars	Number of visits
1	SAC meetings	38
2	Field days	40
3	Workshops / seminars	15
4	Technology week	8
5	Training programmes	65
6	Others pl. specify	25

(c) Overseeing of KVKs activities

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
1	On Farm Trials	50	Satisfactory	Demonstration board should be installed Use recent varieties
2	Front Line Demonstration	76	Satisfactory	—
3	Others pl. specify	31	Standing crop - Wheat & Mustard crop Provide suggestion to implementing agencies	Crop residue should not burn Provide suggestion to implementing agencies

(d) Publication on Technology inventory

S. No	Particulars	Title of Book	No. of copies printed
1.	Directorates of SVPUAT, Meerut published	Technological Inventory	100
2.	Directorates constantly updating the technological inventory	Technological Inventory	100
4.	Bulletin	Go-Adharit Prakarthik Kheti	100
5.	Other Publication, if any (with title)	Sardar Patel Krishi News Letter	100
		Varshik Krishi Darshika 2023	1000
		Annual Action Plan 2024 for KVKs	20
		Annual Progress Report 2023 of KVKs	20
		Krishak Bharti (Rabi Visheshank)	1500
		Krishak Bharti (Shri Anna-Milletts)	1500
		Newsletter	500
		Leaflets/Folder	1000

(e) Technological Products provided to KVKs

S. No.	Major technologies provided	Number of KVKs
1.	Seeds	68
2.	Planting materials	12
3.	Bio-products	5

Annex-VIII

Detail address list of KVKs (Uttar Pradesh)

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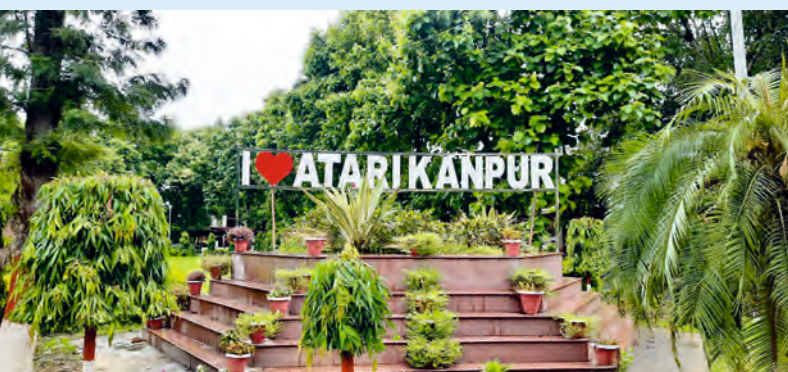
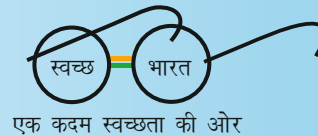
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