

ANNUAL PROGRESS REPORT

(01 January, 2023 to 31 December, 2023)

KVK, APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	66	1002	695	1697
Rural youths	1	30	0	30
Extension functionaries	2	72	23	95
Sponsored Training	4	108	157	265
Vocational Training	-	-	-	-
Total	73	1212	875	2087

2. Frontline Demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds (CFLD, NICRA)	120	55.0	--
Pulses (FLD, CFLD, NICRA, TSP)	106	46.4	--
Cereals (TSP)	25	10.0	--
Vegetables (NICRA)	9	1.0	--
Other crops (Cumin & Natural Farming)	35	12.5	--
Hybrid crops	--	--	--
Total	295	124.9	
Livestock & Fisheries (Poultry)	112	-	20 chicks per farmers
Goat	7	-	1 bucks/ farmer
Other enterprises (Nutri-garden kit)	-	-	
Total	120		
Grand Total	415	124.9	-

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	3	30	30
Livestock	--	--	--
Various enterprises	--	--	--
Total	3	30	30

4. Extension Programmes

Category	No. of Programmes/ Text Message)	Total Participants/ beneficiaries
Extension activities	100	3340
Other extension activities (Advisory services)	777	132800
Total	877	136140

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Aware-ness	Other enterprise	
Sirohi	Text only	185	98	195	48	34	217	777
	Voice only	--	--	--	--	--	--	--
	Voice & Text both	--	--	--	--	--	--	--
	Total Messages	--	--	--	--	--	--	--
	Total farmers Benefitted							1,32,800

6. Production of Seed & Planting Material

	Quintal/Number	Value Rs.
Seed (q)	259.14	10,13,190
Planting material (No.)	65900	13,45,888
Bio-Products (kg)	-	21,370
Livestock Production (No.)	17	1,54,075
Fishery production (No.)	--	--

7. Soil, Water & Plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	459	91,800
Water	107	2140
Plant	-	-
Total	566	93940

8. HRD and Publications

S. No.	Category	Number
1	Workshops attended	6
2	Conferences attended	1
3	Meetings	20
4	Trainings for KVK officials	6
5	Visits of KVK officials	10
6	Book published	1
7	Training Manual	-
8	Book chapters	-
9	Research papers	1
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	-
13	Proceedings	1
14	Award & recognition	2
15	On-going research projects	-

DETAIL REPORT OF APR-2023

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	Fax	
Krishi Vigyan Kendra, Post Box No.-15, Sirohi-307001 (Rajasthan)	-	-	pckvkSIrohi@yahoo.com

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	Fax	
Vice-Chancellor Agriculture University, Jodhpur- 313 001 Rajasthan	0291-2571347	0291-2571813	vcunivag@gmail.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R.S. Choudhary, Programme Coordinator Krishi Vigyan Kendra, Sirohi Post Box No.:- 15, District- Sirohi Pin code- 307 043, Rajasthan, India	KVK Quarters	9352241145	pckvkSIrohi@yahoo.com

1.4. Year of Establishment: 17 September, 1989

1.5. Staff Position (as on 31st December, 2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Category (SC/ST/OBC/ Others)	Mobile no.	Email Id
1.	Programme Coordinator	Vacant	-	-	-	-	-	-	-	-
2.	Subject Matter Specialist	Dr. RPS Jetawat	SMS	P. Path	15600-39100	61300	20.2.18	Gen	7737891990	jaitawat.ravindra@gmail.com
3.	Subject Matter Specialist	Dr. Ankita Sharma	SMS	H. Sc.	15600-39100	61300	26.3.18	Gen	9414465592	ankitasharnanutrition@gmail.com
4.	Subject Matter Specialist	Ms. Kamini Parashar	SMS	Horti.	15600-39100	61300	24.2.18	Gen	9057510027	parasharkamini22@gmail.com
5.	Subject Matter Specialist	Dr. Sonika Sharma	SMS	Ext.Edu.	15600-39100	39300	24.05.22	Gen	9639528394	sonikakhandelwal55@gmail.com
6.	Programme Assistant	Bhanwarlal Choudhary	PA (Lab tech.)	Soil Science	9300-34800	40100	5.10.18	OBC	9785310792	bhanwarsinghchoudhary007@gmail.com
7.	Farm Manager	Dr. Hari Singh	Farm Manager	Agronomy	9300-34800	40100	4.10.18	OBC	9887524626	hsagro666@gmail.com
8.	Accountant / Superintendent			-					Vacant	
9.	Stenographer	Sh. Akash Khatri	Steno.	-	5200-20200	22000	5.10.18	Gen	9269548888	khatri.akash39@gmail.com

										gmail.com
10.	Driver	Gajendra Jat	Driver	(Deputed at University)-	5200-20200	20400	4.10.18	OBC	6375986618	
11.	Supporting staff	Sh. Narayan Singh	Class IV	-	5200-20200	23800	22.2.17	Others	8094078745	-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	0.5
3.	Under cultivation	20.0
4.	Orchard/Agro-forestry	4.0
5.	Others (specify) (Uncultivated)	9.5
Total		34.5

1.7. Infrastructural Development:

(A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2005	374.4	Kept with EO	-	-	-
2.	Farmers Hostel	ICAR	1995	328.52		-	-	-
3.	Staff Quarters (6)	ICAR	2007	3365	Kept with EO	-	-	-
4.	Demonstration Units (2)	ICAR	2010	0.6	Kept with EO	-	-	-
5	Fencing	ICAR	2011	Partial	Kept with EO	-	-	-
6	Rain Water harvesting system	ICAR	2008	Completed	10.0 lakh	-	-	-
7	Threshing floor	ICAR	2008	Completed	1.00 lakh	-	-	-
8	Farm godown	ICAR	2009	Completed	Kept with EO	-	-	-
	Modal Nursery	NHM	2009	Completed	18.0 lakh	-	-	-
9	Goat Unit	ICAR	2010	Completed	Kept with EO	-	-	-
10	Fencing	RKVY	2012	Partial	Kept with EO	-	-	-
11	Farm Boundary	RKVY	2021	Completed	Kept with EO	-	-	-

(B) Vehicles

Type of vehicle	Year of purchase	Cost (lacs)	Total kms. Running	Present status
Motor cycle Hero Honda	8.3.1999	0.37	-	Not Working
Tractor old	31.03.1995	2.22	-	Not Working
Motorcycle Hero Honda Passion Pro	26.3.2011	0.48700	-	Working
Tractor new	22.05.2019	5.50	-	Working
Jeep Bolero	2023	7.81	-	Working

(C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Lakhs/ Rs.)	Present status
Photostat machine	31.03.04	0.57	Working
Camera (Sony)	03.02.14	0.24	Working
Camera (Canon)	15.03.19	0.39	Working
Computer-I	1998	-	Very old
Computer-II	12.08.05	0.30	Very old
Scan Jet	12.08.05	0.05	Not Working
LCD projector	11.10.05	0.85	Not Working

Overhead projector	26.03.94	0.16	Not Working
Duplicating Machine	12.03.90	0.02	Not working
Cream Separator	12.03.99	0.035	Working
Fat machine	12.03.99	0.01	Working
Digital pH meter with ATC	09.02.05	0.09	Working
Digital conductivity meter	09.02.05	0.09	Working
Microprocessor scanning visible spectrophotometer	09.02.05	0.46	Working
Balance Digital	21.01.05	0.10	Working
Balance digital electronic	07.02.05	1.05	Working
Kjeldal Digestion and distillation	13.02.05	0.19	Working
Rotary shaker	13.02.05	0.26	Working
Digestion apparatus	14.02.05	0.13	Working
Micro Kjeldal Assembly	14.02.05	0.15	Working
Shaking machine	14.02.05	0.16	Working
Oven Memmert type	14.02.05	0.20	Working
YSPL Laboratory mill	14.02.05	0.30	Working
Distilling apparatus quartz and demountable panel series	14.02.05	0.74	Working
Electric rely unit	14.02.05	0.05	Working
Water softener	14.02.05	0.07	Working
Rectangular hot plate MAC MSW	18.02.05	0.17	Working
U controller flam photometer	27.01.05	0.36	Working
Constant voltage transformer 500 V	10.03.05	0.10	Working
Constant voltage transformer 1 KVA	10.03.05	0.18	Working
Combine Electrode Plate	10.03.05	0.05	Working
Conductivity Cell	10.03.05	0.05	Working
Optical glass cuvette for spectrophotometer	10.03.05	0.08	Working
Quartz glass cuvette for spectrophotometer	10.03.05	0.15	Working
Visible Lamp for spectrophotometer	10.03.05	0.03	Working
Steel Elmira 78X36X10	18.03.05	0.35	Working
Steel Elmira 50X30X17	18.03.05	0.20	Working
Steel Rack with 6 shelves	18.03.05	0.16	Working
Steel shoe case 66X33X12 with 4 mm glass	18.03.05	0.26	Working
Office Table	18.03.05	0.10	Working
Office table with sun mica top	18.03.05	0.11	Working
Furniture			
Table	30.03.91	0.03	Working
Central table	28.03.91	0.007	Working
Library table with chair		0.13	Working
Chair steel tubular with back	12.02.91	-	Working
Sofa set	17.06.97	0.02	Working
Chalk board	18.03.02	0.01	Working
Ply wood board	31.03.94	0.015	Working
Dari (Fars)	31.10.91	-	Working
Dari (Fars)	23.03.97	0.02	Working
Almirah	11.02.93	0.11	Working
Almirah	24.03.97	0.02	Working
Almirah	31.03.90	0.001	Working
Almirah	17.03.94	0.08	Working
Almirah	24.03.97	0.03	Working

Lecture stand	26.03.94	0.02	Working
Iron Box and Almirah	18.03.02	0.10	Working
Disc harrow	31.03.95	0.13	Not working
Disc plough	22.03.97	0.20	Not working
Trolley	31.03.95	0.31	Not working
Cultivator	22.03.01	0.06	Working
Cultivator with seed drill	31.03.95	0.08	Not working
Nine tine tiller	03.03.95	0.11	Not working
Bund Former	22.03.97	0.04	Not working
Land Leveler	22.03.97	0.03	Not working
Sprayer	31.03.90	0.002	Not working
Sprayer	19.12.91	0.006	Not working
Sprayer	20.03.99	-	Working
Knap sack sprayer	26.03.03	0.03	Working
Duster	31.03.94	-	Not working
Duster	28.03.03	0.03	Not working
Duster	29.03.97	0.01	Not working
Agri. Sprayer with hand compression	27.03.98	0.03	Not working
Agri decorticator with 1 hp	27.03.98	0.10	Not working
Seed dressing drum	29.03.97	0.03	Not working
Power sprayer	29.03.97	0.06	Not working
Rotary Hand Duster	20.03.99	0.12	Working
2F MB plough	20.03.99	0.10	Working
Seed cum Fertilizer drill	23.03.98	0.06	Not Working
Agriculture Fertilizer broad caster	23.03.98	0.04	Working
Messy Cultivator Hal	19.01.99	0.06	Working
LCD Projector	21.03.2007	98138	Working
Digital Camera	23.02.2010	23700	Not Working
Furniture (Conference Table-01, Chair-30)	26.02.2010	99989	Working
Generator	26.02.2010	49800	Working
FAX Machine	28.02.2010	14327	Not Working
EPBAX	2011	45064	Not Working
PA System	2011	29800	Working
Power sprayer	2011	24993	Working
Computer	12.08.05	30800	Working
Diesel Engine	6.09.05	17200	Not Working
Scan Jet	11.03.2005	4450	Not Working
Stitching Machine	9.07.07	10800	Working
Embroidery Machine	9.07.07	7900	Working
LCD Projector	16.09.05	82619	Working
Cultivator	2016		Working
AC	21.3.17 (2)		Working
Soil testing kit	2022		Working
Computer	2017		Working
LCD Projector	2017		Working
Epson inkjet printer	20.03.20	9850	Working
Lenevo PC system (2)	14.03.19	76900	Working
Canon color printer	18.11.20	36290	Working
Brother printer all in one (3)	14.03.19	44600	Working
Intex speaker	24.03.19	9820	Working
Revolving low back chair	15.03.21	27017	Working

Visitor chair (15)	08.02.21	29400	Working
Bajaj air cooler	21.03.20	9990	Working
Disc hamor	21.03.17	35975	Working
TCL LED TV	17.02.21	96900	Working
Running LED display board (2)	11.03.20	37760	Working
Podium digital	21.03.17	94500	Working
Refrigerator	14.03.19	16900	Working
Solar dryer	17.03.20	76750	Working
Digital electronic balance	13.03.20	9550	Working
Lab oven	17.03.20	9300	Working
Soil Auger	19.03.20	6483	Working
UTL off grid solar system	19.03.20	187656	Working
LED display Board (7)	4-6.03.20	35872	Working
Bio- Shredder	21.03.20	150000	Working
Chaff cutter	21.03.20	20000	Working
LED display board	13.03.20	16992	Working
LED display board	16.03.20	3304	Working
Wood cutter	04.12.20	6800	Working
Zatka machine	12.12.18	13500	Working
Computer desktop	28.01.21	40017	Working
Computer all in one	21.01.2021	50376	Working
LED letter box	15.03.22	27000	Working
Sofa set+ Almirah+ Revolving chair	14.03.22	97330	Working
Digital Interactive Board	24.02.22	149500	Working
Water cooler with RO	24.02.22	48990	Working
Photocopy machine mutifunctional	24.02.22	87540	Working
Pedestal fan	16.06.22	2300	Working
Electronic Balance	05.07.22	5200	Working
Band farmer (2 in 1) Autometric	15.11.22	21900	Working
Trolley equipments	04.03.21	18000	Working
Mango plastic chair	05.04.22	2670	Working
Grinder	07.01.23	3000	Working

1.8. A). Details SAC meeting* conducted in the year 2023

Proceedings of Scientific Advisory Committee Meeting held on 21.07.2023 at KVK Sirohi

The Scientific Advisory Committee (SAC) meeting of Krishi Vigyan Kendra was organized on 21 July, 2023 at training hall of KVK on physical mode. The meeting was chaired by Dr. Mahendra Kumar, Associate Director, Directorate of Extension Education, AU, Jodhpur as a chief guest. Dr. H. N. Meena, Senior Scientist, ATARI, Jodhpur and Dr. Hemraj Meena, Deputy Director, Horticulture was Special Guest of the meeting. In all, 36 officers of line departments, NGO, Stakeholders, Innovative Farmers and Scientist of KVK were present physically in the meeting.

1. Dr. R.S. Choudhary, Senior Scientist and Head, welcome all members present in the meeting. He briefed about all the action taken/work done as suggested in the report of previous SAC meeting held on 24.08.2022. Participating members approved the action taken report of previous SAC.

2. Sr. Sci. and Head presented the progress report including Trainings, OFTs, Farm Development Work, Adopted Village's progress, status of revolving fund and technological input produced and sold etc. of the KVK, Sirohi (From August, 2022 to June, 2023). He also shared the achievement of the KVK during last one year.

(Action: Sr. Sci. and Head)

3. Dr. R.P.S. Jetawat, SMS (Plant Protection) presented the work assigned to him during the above referred period. He presented the detailed report of training programmes, FLDs, demonstration of technologies under TSP. He revealed the house about OFT of 'Integrated Management of *Ramularia Blight* in Fennel'. He also presented status of on campus training and Kisan Goshthi conducted under 'Out Scaling of Natural Farming' project for awareness among farmers. House appreciated the work.

(Action: SMS Plant Protection)

4. Mrs. Kamini Parashar, SMS (Horticulture) presented her work. She narrated the house about the progress of nursery production along with the mandatory work carried out by her during the period. She briefed house about selling of saplings of improved hybrids and varieties of papaya (Red lady 786), and drumstick (PKM-1). She also presented report of training programmes, FLDs, demonstration of technologies under NICRA project. House appreciated the work.

(Action: SMS Horticulture)

5. Dr. Ankita Sharma, SMS (Home Science) presented the work progress and plan of work for next year. She presented the detailed report of One District One Product activity, training programmes as on, off, sponsored and online trainings, method demonstration, FLDs, activities of NARI scheme and related extension activities. House appreciated the work of "One District One Product".

(Action: SMS Home Science)

6. Dr. Sonika Sharma, SMS (Extension Education) presented the work assigned to her during the above referred period. She presented the detailed report of training and awareness programmes conducted on and off campus as field days, film shows, Days celebrations and campaigns. She also presented results of NFSM-CFLD oilseed and Pulses.

(Action: SMS Extension Education)

7. Sh. Sushil Kumar, SMS (Agromet) presented the progress and work done during the above referred period. He presented the detailed report of trainings conducted and advisories issued under DAMU project. He also mentioned number of farmers registered on m-KISAN portal, Kisan Saarthi platform.

(Action: SMS Agromet)

8. Chairman of the SAC meeting Dr. Mahendra Kumar, Associate Director, AU, Jodhpur suggested that

a) Include titles of on and off campus trainings as per farmer's need and it should be specific and particular.

(Action: All SMS)

b) Conduct Participatory Rural Appraisal for better understanding of farmer's situation.

c) Conduct impact assessment of previous programmes and publish in referred journals

d) Increase registration of farmers on Saarthi portal.

(Action: SMS Extension Education and SMS Agromet)

9. Dr. H.N. Meena gave suggestions which are mentioned below:

a) Establish small cafeteria of millet crops in rabi season

(Action: Farm Incharge)

b) Conduct minimum two On Farm Trials on the basis of problems occurred in farmer's field in major crops of the area.

(Action: All SMS)

c) Prepare database of input and output details of papaya and fennel products along with B:C ratio.

(Action: SMS, Horticulture and Home Science)

d) Update website and KVK portal regularly.

(Action: SMS, Extension Education)

e) Initiate seed production of vegetables at KVK farm.

(Action: SMS, Horticulture)

f) Conduct trainings as per components mentioned under NICRA project.

(Action: Nodal officer, NICRA)

10. Dr. Hemraj Meena, Deputy Director Horticulture suggested that

a) Explore possibilities of Kisan Bhawan (Farmer Hostel) at KVK Sirohi for proper functioning of capacity building trainings.

(Action: Sr. Sci. & Head)

b) Provide saplings of lime, papaya and drumstick as per demand of farmers.

(Action: SMS Horticulture)

c) Conduct trainings on protected cultivation, post harvest technologies, moringa cultivation, preservation techniques and drudgery reduction etc.

(Action: SMS, Horticulture and Home Science)

d) Explore possibility of mother orchard of Datepalm at KVK for demonstration.

(Action: SMS, Horticulture)

11. Dr. M.L. Tetarwal, Senior Scientist and Head, KVK, Bamanwara suggested that

a) Conduct trainings on Castor production technologies as the area of castors is highest in the district.

(Action: Incharge Agronomy)

12. Dr. P.C. Verma, Seed Officer, RSSCL, Sumerpur suggested that

a) Conduct trainings on safe use of insecticides and pesticides and residual effect of IPM.

(Action: SMS Plant Protection)

The meeting was ended with thanks to the chair, chief guest, special guest and all invited members.

List of participants:

1. Dr. Mahendra Kumar, Associate Director, DEE, AU, Jodhpur
2. Dr. H.N. Meena, Senior Scientist, ATARI, Jodhpur
3. Dr. R.S. Choudhary, Senior Scientist & Head, KVK, Sirohi
4. Dr. Hemraj Meena, Deputy Director Horticulture, Sirohi
5. Dr. M.L. Tetarwal, Senior Scientist & Head, KVK, Bamanwara
6. Shri Ramresh Meena, Plant Manager, RSSCL, Sumerpur
7. Dr. P.C. Verma, Seed Officer, RSSCL, Sumerpur
8. Shri Balwant Singh, Progressive farmer, Naradara, Sheoganj
9. Shri Mahendra Singh, Progressive farmer, Naradara, Sheoganj
10. Shri Aditya Kumar Jha, CMF (Tata Trust), Abu road
11. Shri Narendra Kumar Pandey, CMF (Tata Trust), Abu road
12. Shri Sandeep Singh, CMF (Tata Trust), Sirohi
13. Shri Krishan Kumar, Farmer, Aburoad
14. Mohhammad Rafiq, Farmer, Sirohi
15. Shri Ajeet Kumar, Progressive farmer, Pindwara
16. Shri Tulsiram, Progressive farmer, Pindwara
17. Shri Gulmulla Khan, Progressive farmer, Sirohi
18. Shri Ankush Dhiman, Senior Executive, PRADAN, Sirohi
19. Shri Chetan Malviya, Educate The Girls, District Incharge, Sirohi
20. Shri Chandra Shekhar Singh, Progressive Farmer, Sirohi
21. Shri Govind Rathore, JEN, JdVVNL, Palri(M), Sirohi
22. Shri Bhavesh Kumar, Technician, JdVVNL, Palri(M), Sirohi

23. Dr. Ankita Sharma, SMS, Home Science, KVK, Sirohi
24. Dr. RPS Jetawat, SMS, Plant Protection, KVK, Sirohi
25. Mr. Sushil Kumar, SMS, Agromet, KVK, Sirohi
26. Mrs. Kamini Parashar, SMS, Horticulture, KVK, Sirohi
27. Dr. Sonika Sharma, SMS, Extension Education, KVK, Sirohi
28. Dr. Hari Singh, Farm manager, Agronomy, KVK, Sirohi
29. Shri Bhanwar Lal Choudhary, Programme Assistant, KVK, Sirohi
30. Shri Akash Khatri, Stenographer, KVK, Sirohi
31. Shri Surendra Singh, Agromet Observer, DAMU, KVK, Sirohi
32. Shri Chattar Singh, IV Class, KVK, Sirohi
33. Shri Pratap Singh, Driver, KVK, Sirohi
34. Shri Pratap, Worker, KVK, Sirohi
35. Shri Happy Singh, Worker, KVK, Sirohi
36. Shri Mahendra Singh, SRF, NICRA, KVK Sirohi

** Attach a copy of SAC proceedings along with list of participants*

2. DETAILS OF DISTRICT (2022-23)

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Agriculture
2.	Agriculture + Animal Husbandry
3.	Agriculture + Service
4.	Agriculture + Business

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Agro-climatic zone II b i.e. “Transitional plain of Luni Basin”	Irrigated, normal soil, rainfed, medium to deep soil
2	Zone IV a i. e. “Sub humid Southern plain and Aravalli Hills”	Rainfed, medium textured, shallow to moderate deep, undulated and hilly, irrigated medium to heavy texture, moderately deep to very large

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1.	Sandy loam to loamy	Low N & P, Calcium carbonate concretions occurs at various depths influencing the effective soil depth salinity, sodicity in same area	3,15,934
2.	Loamy sand to clay, loam lethosols	Low in N, medium in P and medium to high in K, low WHC, water erosion of soil is common	2,02,013

2.4. Area, Production and Productivity of major crops cultivated in the district (2022-23)

S.No	Crop	Area (ha)	Production (MT.)	Productivity (kg/ha)
1.	Maize	20150	36667	2359
2.	Sorghum	4050	3955	979
3.	Pearlmillet	12020	9238	1113
4.	Greengram	5290	2059	518
5.	Urd	3350	1674	565
6.	Groundnut	26960	43011	2163
7.	Sesame	16720	6306	356
8.	Castor	37250	65179	1822
9.	Cotton	2650	5150	541
10.	Clusterbean	11665	8642	681
11.	Wheat	34291	109376	3190
12.	Barely	773	2631	3403
13.	Chickpea	4858	5168	1064
14.	Rapeseed & Mustard	32739	42358	1294
15.	Cumin	5300	2568	650

16	Isabgol	431	361	-
17.	Taramira	59	31	521
18.	Linseed	5	3	600

Source: Department of Agriculture, Sirohi

2.5. Weather data (2023)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January 2023	25.5	20.9	5.7	64	28.1
February 2023	0.0	28.2	10.7	60.2	19.5
March 2023	9.5	31.3	14.3	66.9	20.6
April 2023	6.5	36.3	19.6	47.5	21.3
May 2023	27.5	36.3	27.6	60.8	27.9
June 2023	332.5	33.4	22.1	79.9	50.4
July 2023	496.5	31.7	22.0	90.7	64.9
August 2023	2.5	30.2	19.9	88.9	63.5
September 2023	154	33.3	20.0	87.9	53.3
October 2023	2.0	34.2	16.0	76.6	28.7
November 2023	20.5	31.1	17.3	72.1	37.5
December 2023	0.0	21.7	8.6	74.2	35.8
Total	1077	30.7	17.0	72.5	39.3

Source: District Administration Office, Collectorate, Sirohi

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (20th Livestock census)

Category	Population
Cattle	
<i>Crossbred</i>	10862
<i>Indigenous</i>	194241
Buffalo	211005
Sheep	
Crossbred	5
<i>Indigenous</i>	154460
Goats	352535
Pigs	-
<i>Crossbred</i>	-
<i>Indigenous</i>	74
Rabbits	737
Poultry	-
Hens	-
<i>Desi</i>	52209
<i>Improved</i>	-
Ducks	-
Turkey and others	-
	Area
Fish	-
<i>Marine</i>	-
<i>Inland</i>	-
Prawn	-
Scampi	-
Shrimp	-

Source: Department of Animal Husbandry & Dairying (GoI)

2.7 Details of Operational area / Villages (2023)

Taluka	Name of block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Sirohi, Sheoganj, Pindwara, Aburoad and Reodar	Sirohi, Sheoganj, Pindwara	Sartara	Mustard, Wheat, Cotton, Castor, Sesame, Green gram, Maize, Okra, Lemon, Papaya	<ul style="list-style-type: none"> ➤ Low productivity of crops viz. castor, cotton, fennel and mustard ➤ Least adoption of horticultural crops ➤ Scarcity of irrigation water ➤ Low milk yield of indigenous cattle, buffalo & goat ➤ Malnutrition in farm women & children 	FLDs, Trainings for farmers and farm women Trainings for Rural youth Trainings for Extension functionaries Availability of Agricultural magazines and Krishi Calendar Seed production Back Yard Poultry Farm
		Dhanta (NICRA)	Tomato, Mustard, Cauliflower, Cabbage, Sesame, Chilli, Okra, Bottle Guard, papaya, Napier grass	<ul style="list-style-type: none"> ➤ Scarcity of irrigation water ➤ Practicing broad cast method of sowing of mustard, wheat, ➤ Heavy attack of pest & disease in castor, tomato & fennel 	-do-
		Mamavali	Mustard, Wheat, Okra, Castor, Lemon, Papaya	<ul style="list-style-type: none"> ➤ Low productivity of crops viz. castor, cotton, fennel and mustard ➤ Least adoption of horticultural crops 	-do-
		Siloiya	Wheat, Cotton, Castor, Sesame, Mustard, Green gram, Maize, Okra, Lemon, Papaya	<ul style="list-style-type: none"> ➤ Scarcity of irrigation water ➤ Low milk yield of indigenous cattle, buffalo & goat ➤ Malnutrition in farm women & children 	-do-
		Rukhara	Wheat, mustard, maize, cotton, sesame, green gram, castor, fennel, papaya, lemon, Mango	<ul style="list-style-type: none"> ➤ Low productivity of crops viz. castor, cotton, fennel and mustard 	-do-
		Arthwara	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chlli, Bottle guard, Citrus, Fennel, papaya, Clusterbean, Lemon, Castor	<ul style="list-style-type: none"> ➤ Low milk yield of indigenous cattle, buffalo & goat ➤ Practicing broad cast method of sowing of mustard, wheat, 	-do-
		Dhingar	Wheat, Cotton, Sesame, Mustard, Green gram, Maize,	<ul style="list-style-type: none"> ➤ Scarcity of irrigation water ➤ Practicing broad cast method of sowing of mustard, wheat, 	-do-
		Thandiberi	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chlli, Bottle guard, Citrus, Fennel, papaya, Clusterbean, Lemon, Castor Livestock-Chicks, Goat	<ul style="list-style-type: none"> ➤ Low economic status of farm families ➤ Low milk yield of indigenous cattle, buffalo & goat 	-do-
		Nitora	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chlli, Bottle guard, Citrus, Fennel, papaya, Clusterbean, Lemon, Castor Livestock-Chicks, Goat	<ul style="list-style-type: none"> ➤ Low economic status of farm families ➤ Low milk yield of indigenous cattle, buffalo & goat ➤ Lack of motivation 	-do-

		Telpikhera	Wheat, Sesame, Mustard, Green gram, Maize, Citrus, Fennel, papaya, Clusterbean, Lemon, Castor Livestock-Chicks, Goat	<ul style="list-style-type: none"> ➤ Least adoption of horticultural crops ➤ Low economic status of farm families ➤ Lack of Knowledge 	-do-
		Kacholi	Wheat, Cotton, Sesame, Mustard, Green gram, Bottle guard, Citrus, Fennel, papaya, Castor	<ul style="list-style-type: none"> ➤ Malnutrition in farm women & children ➤ Lack of leadership skills 	-do-
		Moras	Wheat, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Citrus, Fennel, papaya, Kharif Onion	<ul style="list-style-type: none"> ➤ Practicing broad cast method of sowing of mustard, wheat, ➤ Lack of awareness 	-do-
	Aburoad	Panchdeval	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya	<ul style="list-style-type: none"> ➤ Lack of knowledge ➤ Lack of Cultivable area ➤ Unaware of new varieties 	-do-
		Phulabai ka kheda	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya	<ul style="list-style-type: none"> ➤ Lack of Motivation ➤ Inefficient use of irrigation water 	-do-
		Jhamotra	Wheat, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya	<ul style="list-style-type: none"> ➤ Lack of leadership skill ➤ Low productivity of crops viz. castor, cotton, fennel and mustard 	-do-
		Awal	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya	<ul style="list-style-type: none"> ➤ Low milk yield of indigenous cattle, buffalo & goat 	-do-
	Reodar	Positara	Wheat, Cotton, Castor, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya	<ul style="list-style-type: none"> ➤ Scarcity of irrigation water ➤ Practicing broad cast method of sowing of mustard, wheat, papaya 	-do-
		Pithapura	Wheat, Cotton, Sesame, Mustard, Green gram, Maize, Okra, Chilli, Bottle guard, Citrus, Fennel, papaya Lemon, Sapota, Mango	<ul style="list-style-type: none"> ➤ Low milk yield of indigenous cattle, buffalo & goat ➤ Least adoption of horticultural crops 	-do-
		Nimboda	Tomato, Mustard, Cauliflower, Cabbage, Sesame, Chilli, Okra, Bottle Guard	<ul style="list-style-type: none"> ➤ Least adoption of horticultural crops ➤ Inefficient use of irrigation water 	-do-

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Papaya, citrus, mango, and ber in fruits, tomato and chillies in vegetables, fennel and cumin in spices	Diversification of existing cropping pattern by expanding area under horticulture.
Castor	High yielding varieties and Change in crop geometry
Cotton	Integrated pest management and INM
Fennel	High yielding varieties, Irrigation management and change in crop geometry.
Mustard	High yielding varieties and INM
Wheat	High yielding varieties
Maize	High yielding varieties
Green Gram	High yielding varieties and INM
Cluster bean	High yielding varieties
Sesame	High yielding varieties and INM
Cumin	High yielding varieties

Goat (Sirohi-goat)	Promotion of dual-purpose breed of goat (Sirohi-goat)
Cow and buffaloes	Improvement in local breeds of cow and buffaloes through scientific breeding, AI, feeding and management
Dry land farming	Promotion of dry land farming technologies in watershed areas of the district.
Castor, fennel and tomato	Popularization of IPM, IPNS, IWM technologies in commercial crops
Drudgery reducing measure	Introduction of drudgery reducing measure in agriculture and animal husbandry activities especially for women and improvement in health, hygiene and nutrition status of rural families and formation of Self-Help Groups
Vocational trainings for rural	Organizing vocational training's for rural youth on dairy management, nursery raising, cutting & tailoring and fruit & vegetable preservation

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2023

OFT (Technology Assessment)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
3	3	30	30	124.9	124.9	295	295

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities/ Advisories through Text message		Number of participants/ Beneficiaries	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers & farm women	66	66	1697	1697	877	877	136140	136140
Rural youths	1	1	30	30	-	-	-	-
Extension functionaries	2	2	95	95	-	-	-	-
Sponsored Training	4	4	265	265	-	-	-	-
Vocational Training	-	-	-	-	-	-	-	-
Total	73	73	2087	2087	877	877	136140	136140

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
100	259.14	80-100	60000	65,900	250-300

I. A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVK

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management	Maize	Integrated Pest Management of Fall Army Worm in Maize in Sirohi District (First year)	10	10
Integrated Crop Management	Cumin	Assessment of seed rate with optimum spacing in cumin (3 rd year)	10	10
Integrated Disease Management	Fennel	Management of Ramularia blight disease in Fennel (2 nd year)	10	10
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post-Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				

Summary of technologies assessed under livestock by KVK

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management	-	-	-	-
Evaluation of Breeds	-	-	-	-
Feed and Fodder management	-	-	-	-
Nutrition Management	-	-	-	-
Production and Management	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total			-	-

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
	-	-	-	-

-	-	-	-	-
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I.B. TECHNOLOGY ASSESSMENT IN DETAIL

INTEGRATED CROP MANAGEMENT

On Farm Trial-1

Problem definition: Management of ramularia blight disease in fennel

Technology Assessed: Spray of Chlorothalonil 75 WP (0.15 %) (2nd year)

Title	Management of ramularia blight disease in fennel
Year	2022-23
Problem Diagnose	Integrated Disease Management
No. of Trials	10
Source of Technology	SDAU, Dantiwara (Gujrat)

Treatment	No. of trials	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ : Spray of Mencozeb	10	1040	152,400	3.37
T ₂ : Two spray of Chlorothalonil 75 WP (0.15 %) by removing 50% of the lower yellow leaves at the time of flowering and grain filling. First spray as soon as the disease appears and second after 15 days		1460	230,200	4.87

On Farm Trial-2

Assessment the impact of optimum seed rate with optimum spacing in cumin (*Cuminum cyminum L.*) crop (3rd year)

1. Title of Technology Assessment: Response of cumin (*Cuminum cyminum L.*) to seed rate with line sowing

2. Problem Diagnose/defined:

Cumin (*Cuminumcyminum L.*) is an important seed spice crop grown in sub- tropical parts of India and is cultivated mainly in Rajasthan. Maintenance of optimum plant population is an important agronomical aspect of crop production. The production per plant is always greater in wider spaced plant; however, better performance of the individual plant with wider spacing cannot compensate the loss in yield with low plant population. On the other hand, the struggle for existence increases with increase in plant population because of competition for growth factors. Such competition can be reduced by maintaining an optimum row spacing and seed rate. However, the optimum seed rate for higher yield with optimum spacing (22.5 cm). Since meagre information is available on these aspect, the present study OFT carried out to find out the optimum seed rate with line sowing for maximum yield of cumin.

Cumin cultivation is being practiced in Sirohi District in Rabi season. In Sirohi, it covers an area of 5257ha under irrigated area (Government of Rajasthan, 2019). Farmers got low yield due to broadcasting

method of sowing. For spices crop, proper seed rate and distance is essential element for getting optimum production. Farmers are not aware about the importance of sowing method in cumin production. Thus, the KVK decide to conduct an on farm testing on assessment on proper seed rate with line sowing is to be taken.

3. Treatments

- : T₁ – Farmer Practices (Seed rate 18kg/ha + (Broadcasting Method)
- : T₂ – Seed rate 15 kg/ ha + Line sowing
- : T₃ – Seed rate 12 kg/ ha + Line sowing
- : T₄ – Seed rate 10 kg/ ha + Line sowing

Critical inputs:-Seed and *Trichoderma*

Source of technology:- SKNAU, Jobner

Specification of OFT:

1. Plot size – 0.4 ha
2. Total area – 4 ha
3. No. of Farmers: 10

4. Performance of the technology with performance indicators:

- A. Technical
1. Umbels/ plant
 2. Grains/Umbels
 3. Test weight (g)
- B. Economical
1. Seed Yield (q/ha)
 2. Gross return (Rs/ha)
 3. Net return (Rs/ha)
 4. B: C ratio

5. No. of farmers and Area (ha) : No. of farmers –10 (4 ha)
Area under treatment: - 0.4 ha. at each farmer field

6. Total cost per demo. (Rs.) : 10000/-

Assessment the impact of optimum seed rate with optimum spacing in cumin (<i>Cuminum cyminum</i> L.) crop (3 rd Year)					
Treatment	Seed yield	Cost of cultivation	Gross return	Net return	B:C Ratio
T ₁ – Farmer Practices (Seed rate 18kg/ha + Broadcasting Method)	Result awaited				
T ₂ – Seed rate 12 kg/ ha + Line sowing					
T ₃ – Seed rate 15kg/ ha + Line sowing					
T ₄ – Seed rate 10 kg/ ha + Line sowing					

On Farm Trial-3

Problem definition: Integrated Pest Management of Fall Army Worm in Maize in Sirohi District (1st Year)

Technology Assessed: Summer deep ploughing + 10 Pheromon trap/ha. + Chloroantaniiphore 18.5EC

Title	Integrated Pest Management of Fall Army Worm in Maize in Sirohi District
Year	2023-24
Problem Diagnose	Lack of Knowledge, New insect in the area, Lack of integrated management
No. of Trials	10

Source of Technology	NIBSM, Raipur
-----------------------------	---------------

Treatment	No. of trials	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ - Chloropyriphos 50 % 2ml/litre	10	2700	39200	3.08
T ₂ - Summer deep ploughing + 10 Pheromon trap per ha. + Chloroantaniiphore 18.5 EC		3500	52656	3.47

II. FRONTLINE DEMONSTRATION

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2022-23 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1.	Sesame	ICM	Seed treatment, IWM, INM, IPM	Training, CFLDs, Scientist visit & field day	2	50	20
2.	Greengram	ICM	Seed treatment, IWM, INM, IPM	Training, CFLDs, Scientist visit & field day	3	75	30
3.	Mustard	ICM	Seed treatment, IWM, INM, IPM	Training, CFLDs, Scientist visit & field day	2	50	20
4.	Cumin	ICM	Seed treatment, IWM, INM, IPM	Training, CFLDs, Scientist visit & field day	1	10	5
5.	Wheat	ICM	Seed (DBW-187)	Training, CFLDs, Scientist visit & field day	1	25	10
6.	Nutri Garden Kit (Kharif)				5	65	100 m ² / farm women
7.	Nutri Garden Kit (Rabi)				12	399	100 m ² / farm women

* *Thematic areas as given in Table 3.1 (A1 and A2)*

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sesame	Kharif 2023	RF	Sandy loam	Low	Medium	High	Wheat/ Chickpea/ Mustard	(10-23)- 07-2023	(07-19)- 10-2023 (Crop Failed)	655	57
Mustard	Rabi 2023-24	RF	Sandy loam	Low	Medium	High	Sesame/ Greengram/ Castor/ clusterbean	(18-25)-10-2023	-	-	-
Green gram	kharif 2023	RF	Sandy loam	Low	Medium	High	Wheat/ Chickpea/ Mustard	(05-15)-07-2023	(15-30)-09-2023	653	63
Blackgram	kharif 2023	RF	Sandy loam	Low	Medium	High	Wheat/ Chickpea/ Mustard	(01-10)-07-2023 (Crop Failed)	(25-30)-09-2023 (Crop Failed)	653	63
Cumin	Rabi 2023-24	RF	Sandy loam	Low	Medium	High	Sesame/ Greengram/ Castor/ clusterbean	(07-15)-11-2023	-	-	-
Wheat	Rabi 2023-24	RF	Sandy loam	Low	Medium	High	Sesame/ Greengram/ Castor/ clusterbean	(10-15)-11-2023	-	-	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Latest improved certified seed not used.
2.	IPM measures not properly followed
3.	No seed treatment.
4.	Weed infestation & Termite problem.

Farmers' reactions on specific technologies

S. No	Feed Back
1.	RT-351 Sesame variety, White bold seeded, resistant to phyllody disease

2.	IPM-410-3 Greengram variety, Highly resistant to yellow mosaic, powdery mildew, cercospora leaf spot
3.	Mustard (RH-0406) High yield with higher no of pods per plant and bold seeded variety
4.	Cumin (GC-4) high yielding variety, resistant to wilt and powdery mildew

Extension and Training activities under FLD

S.No.	Activity	No. of activities organized	Number of participants	Remarks
1.	Field days	08	192	
2.	Farmers Training	4	140	
3.	Media coverage	10	-	
4.	Training for extension functionaries	-	-	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
						High	Low	Average											
Groundnut																			
Sesame (2023)	ICM	Seed treatment, IWM, INM, IPM	RT-351	60	30	Crop failed due to Changing weather condition regularly													
Mustard (Rabi 2022-23)	ICM	Seed treatment, IWM, INM, IPM	RH-0406	50	20	22	15	19.75	16.74	19.39	23900	107681	83781	4.5	21666	91026	69360	4.2	
Mustard (Rabi 2023-24)	ICM	Seed treatment, IWM, INM, IPM	RH-725	50	20	Result Awaited													
Toria																			
Linseed																			
Sunflower																			
Soybean																			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea																		
Blackgram (2023)	ICM	Seed treatment, IWM, INM, IPM	PU-1	16	6.4	Crop failed due to Changing weather condition regularly												
Greengram (2023)	ICM	Seed treatment, IWM, INM, IPM	Shikha(IPM-410-3)	25	10	6.7	2.5	5.39	4.31	25.06	20100	46179	26079	2.30	18448	36902	18454	2.00
Chickpea(Rabi 2022-23)	ICM	Seed treatment, IWM, INM, IPM	GNG-2144	70	30	22.5	14.5	19.46	16.74	16.84	28100	103842	75742	3.7	25986	89330	63344	3.4
Fieldpea																		
Lentil																		
Horsegram																		

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Watermelon																			
Spices & condiments																			
Ginger																			
Cumin (Rabi 2022-23)	ICM	Seed treatment, IWM, INM, IPM	10	5	-	-	-	-	6.61	4.73	39.74	40000	165250	125250	4.10	36970	118250	81280	3.20
Garlic																			
Turmeric																			
Commercial Crops																			
Sugarcane																			
Potato																			
Medicinal & aromatic plants																			
Mentholment																			
Kalmegh																			
Ashwagandha																			
Fodder Crops																			
Sorghum (F)																			
Cowpea (F)																			
Maize (F)																			

Poultry (TSP)	-	RIR Chicks	87	20/ Farmer	-	-	-	-	-	-	-	-	-	-	-	-	-
Goat (NICRA)		Sirohi Buck	7	1/ farmer	-	-	-	-	-	-	-	-	-	-	-	-	-
Vaccination																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during 2020)*

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo		Gross Cost			Gross Return	Net Return	BCR (R/C)	
					High	Low							Average
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

Note : Remove the Enterprises/crops which have not been shown

Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	5	23	23	46	73	9	82	96	32	128
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
Others (NICRA)	1	9	2	11	12	2	14	21	4	25
Total	1	9	2	11	12	2	14	21	4	25
IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management	1	12	0	12	13	0	13	25	0	25
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technology				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others (Goat Farming under NICRA)	1	5	0	5	2	0	2	7	0	7
Total	2	17	0	17	15	0	15	32	0	32
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	17	0	17	12	40	52	29	40	69
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high				0			0	0	0	0

nutrient efficiency diet										
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	3	62	0	62	5	50	55	67	50	117
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	5	79	0	79	17	90	107	96	90	186
VI Agril. Engineering										
Farm Machinery and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	2	7	0	7	24	14	38	31	14	45
Integrated Disease Management	3	30	0	30	33	1	34	63	1	64
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	5	37	0	37	57	15	72	94	15	109
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0

Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	1	9	0	9	14	2	16	23	2	25
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	1	4	0	4	1	24	25	5	24	29
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others (Utilization of ICT tools)	1	10	20	30	1	0	1	11	20	31
Total	3	23	20	43	16	26	42	39	46	85
XI Agromet										
Utilization of Meghdoot App and Damini App	4	51	5	56	20	12	32	71	17	88
Preparation of organic pesticides and importance and use of Meghdoot & Damini app				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	4	51	5	56	20	12	32	71	17	88
GRAND TOTAL	32	323	65	388	271	164	435	594	229	823

Farmers' Training including sponsored training programmes (Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	8	33	15	48	70	67	137	103	82	185
Soil & water conservation				0			0	0	0	0
Integrated nutrient management				0			0	0	0	0
Production of organic inputs				0			0	0	0	0

Others (pl specify)				0			0	0	0	0
Total	8	33	15	48	70	67	137	103	82	185
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	1	0	0	0	0	20	20	0	20	20
Off-season vegetables				0			0	0	0	0
Nursery raising	1	15	10	25	0	0	0	15	10	25
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (a)	2	15	10	25	0	20	20	15	30	45
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards	2	13	2	15	49	0	49	62	2	64
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (b)	2	13	2	15	49	0	49	62	2	64
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (c)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (d)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total (f)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0

Others (pl specify)				0			0	0	0	0
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	4	28	12	40	49	20	69	77	32	109
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance use of fertilizers				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
Others (NICRA)	1	29	2	31	6	3	9	35	5	40
Total	1	29	2	31	6	3	9	35	5	40
IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management	1	8	2	10	15	2	17	23	4	27
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed & fodder technology				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	1	8	2	10	15	2	17	23	4	27
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	12	38	50	12	38	50
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	4	0	96	96	0	9	9	0	105	105
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	6	0	96	96	12	47	59	12	143	155
VI Agril. Engineering										
Farm Machinery and its maintenance				0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0

Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	2	1	0	1	2	44	46	3	44	47
Integrated Disease Management	2	10	0	10	10	70	80	20	70	90
Bio-control of pests and diseases	1	10	2	12	11	2	13	21	4	25
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	5	21	2	23	23	116	139	44	118	162
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	1	1	0	1	0	21	21	1	21	22
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	1	0	1	1	1	19	20	1	20	21
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of				0			0	0	0	0

Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	1	20	2	22	12	5	17	32	7	39
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	2	50	7	57	22	16	38	72	23	95

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	0	0	0	0	0	0	0	0	0	0
Commercial production of vegetables	0	0	0	0	0	0	0	0	0	0
Production and value addition										
Fruit Plants	0	0	0	0	0	0	0	0	0	0
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops (MIDH)	1	3	8	11	10	40	50	13	48	61
Soil health and fertility management	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (Energy Efficiency and Energy Conservation)	1	29	10	39	27	25	52	56	35	91
Total	2	32	18	50	37	65	102	69	83	152
Post-harvest technology and value addition										
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others ((WDRA)	1	2	0	2	23	28	51	25	28	53
Total	1	2	0	2	23	28	51	25	28	53
Farm machinery										
Farm machinery, tools and implements	0	0	0	0	0	0	0	0	0	0
Others ((NCIPM))	1	8	11	19	6	35	41	14	46	60
Total	1	8	11	19	6	35	41	14	46	60
Livestock and fisheries										
Livestock production and management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	0	0	0	0	0	0	0	0	0	0
Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
Fisheries Management	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Home Science										
Household nutritional security	0	0	0	0	0	0	0	0	0	0
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Agricultural Extension										
Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	4	42	29	71	66	128	194	108	157	265

*Name of sponsoring agencies involved: (WDRA, NCIPM, RRECL, MIDH)

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total Participants/ Beneficiaries
Diagnostic visits	4	75	4	79
Field Day	8	185	7	192
Group discussions	4	155	10	165
Kisan Ghosti	17	555	37	592
Film Show	4	138	20	158
Self -help groups	0	0	0	0
Kisan Mela	0	0	0	0
Exhibition	2	455	20	475
Scientists' visit to farmers field	35	344	16	360
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	1	25	10	35
Method Demonstrations	10	562	5	567
Celebration of Important days	4	85	12	97
Special day celebration	6	433	22	455
Exposure visits	2	70	10	80
Others (pl. specify)	3	78	7	85
Total	100	3160	180	3340
Advisory Services (Text Message)	777			132800
G. Total	877	-	-	136140

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	12
News paper coverage	35
Popular articles	1
Radio Talks	2
TV Talks	1
Animal health Camps (Number of animals treated)	0
Others (pl. specify)	0
Total	51

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Sirohi	Text only	185	98	195	48	34	217	777
	Voice only	--	--	--	--	--	--	--
	Voice & Text both	--	--	--	--	--	--	--
	Total Messages	--	--	--	--	--	--	--

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organized Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
KVK Sirohi	Gosthies	5	150-180	1. Parthenium Eradication Week (16-22.08.2023) 2. Swacchta Hi Sewa (15.09.2023 to 02.10.2023) 3. Mission LiFE (25.05.2023 to 05.06.2023) 4. Viksit Bharat sankalp Yatra (16.12.2023 to 14.01.2024)
	Lectures organized	40	1200-1250	
	Exhibition	1	400-450	
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practical			
	Distribution of Literature (No.)	5000-6000	5000-6000	
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
Total number of farmers visited the technology week				

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs (2022-23 and 2023)

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Barley	RD 2786		48.76	96000	
		RD 2786		24	47040	
	Wheat	DBW-187		107.26	2,28,000	
Oilseeds	Mustard	RH-0406		5.32	53200	
		RH-725		25.07	1,37,000	
		RH-725		11.00	69850	
	Sesame	RT-351		1.345	26900	
Pulses	Gram	GNG-2144		15.11	81,000	
		GNG-2144		7.5	67500	
	Greengram	IPM-410-3		13.78	206700	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (Undersize/Sort size/STL failed seed)					2,20,333	

Total					259.45	12,33,523

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits	Papaya	Red Lady 786		65,900	13,18,000	
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others (Selling of vegetables)	Watermelon, muskmelon, Roundgourd, bottlegourd				27,888	
Total				65,900	13,45,888	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Food Products	<i>Abu Sonf Sharbat, Sonf Instant Mix, Abu Sonf</i>		21,370	
Total			21,370	

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Goat		17	154075	
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total		17	1,54,075	

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of soil health cards distributed
Soil	459	400-450	30-40	91800	459
Water	107	80-100	20-30	2140	
Plant					
Others (pl.specify)					
Total	566			93,940	459

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Sirohi	21.07.2023	36

IX. NEWS LETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
-	-
-	-

X. PUBLICATIONS

Category	Number
Research Paper	5
Technical bulletins	0
Technical reports	6
Others (pl. specify) (Folder, Book chapter, Radio Talk, Manual, Booklets, press release, Ext. literature etc.)	41

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
2	-	-	63	10

STATUS REVOLVING FUNDS

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
2019-20	15,85,130	9,86,459	11,05,951	14,47,638
2020-21	14,47,638	11,62,257	12,62,264	13,47,631
2021-22	13,47,631	15,26,986	17,44,653	11,29,964
2022-23	11,29,964	18,54,894	16,02,696	13,81,889
2023-24 (Jan 2023-Dec. 2023)				

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
-	-	-	-
Total			

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-
Pulses	-	-
Cereals	-	-
Vegetable crops	-	-
Tuber crops	-	-
Total	-	-

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No. of participants
-	-	-
-	-	-
Total	-	-

Animal health camps organized

Number of camps	No. of animals	No. of farmers
-	-	-
-	-	-
Total		

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
-	-	-	-
-	-	-	-
Total-	-	-	-

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
-	-	-
-	-	-
Total	-	-

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-

XIII. DETAILS ON HRD ACTIVITIES**A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension**

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved

B. HRD activities organized in identified areas for KVK staff by ATARI

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Workshop on Website management	1	50	All KVKs under ATARI
Workshop on Waste management	1	60	All KVKs under ATARI

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

- Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise*
- Performance of the end results of any one technology assessed if any and its impact in district agriculture with respect to that crop or enterprise*
- Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product*

The general format for preparing the above case studies are furnished below

Special programme

- **FLD:** FLD is a unique approach to provide a direct interface between research and farmers as the scientist is directly involved in planning and execution and monitoring of the demonstration for the technologies developed by them and get direct feedback from the farmer's fields about production in general and technology being demonstrated in particular.
 - **Mustard:** In Sirohi district demonstration on oilseed production under ICM and IDM were laid out on 20 hectare at farmer's field on mustard crop variety- RH-0406. The weighted yield of mustard was 22.0 q/ha obtained under demo which was 19.39 percent higher over local check due to its bold seeds and higher yield potential farmers satisfied with this variety. Hence, in 2023-24, 50 demonstrations were conducted at different villages.
 - **Chickpea:** Demonstration on chickpea under NFSM pulses were conducted at 70 farmer's field on an area of 30 hectare. The highest yield of 22.5 q/ha was recorded under ICM compare to local check.
 - **Green gram:** 25 Demonstrations were undertaken by KVK Sirohi covering an area of 10 hectare by introducing new variety IPM-410-3.
 - **Sesame:** CFLD on sesame (RT-351) conducted an area of 30 hectare at 60 farmers' field.
- **Orchard:** - There are many orchards established on KVK Campus in different years. Lime orchard of 300 plants (Variety- NRCC-7, NRCC-8) in 1.5 hectare area in 2020, Guava orchard of 108 plants (Variety- Allahabad Safeda, Barf Khan) in 0.4 ha. area in 2020, Sapota orchard of 50 plants (Variety- Kali Patti), Mango orchard of 50 plants (Dasharoi and Sadabahar) in 2020 and Custard apple orchard of 189 plants (Variety- Balanagar, NMK, Arka Sahan, Anona-2) in 0.5 ha area were established in 2018.

➤ **NICRA: National Innovations in Climate Resilient Agriculture**

Indian Council of Agricultural Research (ICAR), Ministry of Agriculture and Farmers Welfare, Government of India launched a flagship network project 'National Innovations in Climate Resilient Agriculture' (NICRA) in 2011. This project was started at KVK, Sirohi in the Year 2022-23 with the adoption of Dhanta village. The project aims at strategic research on adaptation and mitigation, demonstration of technologies on farmers' fields and creating awareness among farmers and other stakeholders to minimize the climatic change impacts on agriculture. Practices of field bunding and summer deep ploughing were carried out with the 50 adopted farmers. Intervention of drought tolerant variety IPM-410-3 of Green gram and short duration variety MH-1142 of Green gram were provided to 25 farmers for sowing. Gram variety GNG-2144 demonstrated to 25 Farmers. Crop diversification intervention was undertaken in the adopted village with 05 improved variety of Onion demonstration on farmers' field. Custom Hiring Center has been established in the village which is benefiting farmers by providing access to specialized equipments and machinery on shared basis. CHC helps in reducing financial burden, promotes efficient resources use and enhances productivity of farmers. For improving of local goat breed 7 Sirohi breed buck were demonstrated in the village and 500 improved poultry breed RIR chicks were demonstrated to 25 farmers (20 chicks for each farmer) for back yard poultry unit. Training (4 on and 3 off campus) and awareness programme were organized which benefited to

total 220 farmers. In the strategic research, the main thrust areas covered are (i) identifying most vulnerable districts/regions, (ii) evolving crop varieties and management practices for adaptation and mitigation, (iii) assessing climate change impacts on livestock, fisheries and poultry and identifying adaptation strategies.

Objectives

- To enhance the resilience of Indian agriculture covering crops, livestock and fisheries to climatic variability and climate change through development and application of improved production and risk management technologies.
- To demonstrate site specific technology packages on farmers' fields for adapting to current climate risks.
- To enhance the capacity of scientists and other stakeholders in climate resilient agricultural research and its application.

This project has 4 Modules

1. **Natural resources management:** This module consists of interventions related to in-situ moisture conservation, water harvesting and recycling for supplemental irrigation, improved drainage in flood prone areas, conservation tillage where ever appropriate, artificial ground water recharge and water saving irrigation methods.
2. **Crop production:** This module consists of introducing drought/temperature tolerant varieties, advancement of planting dates of rabi crops in areas with terminal heat stress, frost management in horticulture through fumigation, community nurseries for delayed monsoon, custom hiring centers for timely planting, location specific intercropping systems with high sustainable yield index.
3. **Livestock Management:** Use of community lands for fodder production during droughts/floods, improved fodder/feed storage methods, preventive vaccination, improved shelters for reducing heat stress in livestock , management of fish ponds/tanks during water scarcity and excess water, etc.
4. **Institutional intervention:** This module consists of institutional interventions either by strengthening the existing ones or initiating new ones relating to seed bank, fodder bank, commodity groups, custom hiring centre, collective marketing, and introduction of weather index based insurance and climate literacy through a village level weather station.

Natural Farming

➤ **Out scaling of Natural Farming'** project at the KVK, Sirohi was started in the year 2022-23. Natural Farming can be defined as "chemical- free and livestock-based farming". It is considered as agro-ecology based diversified farming system which integrates crops, trees and livestock with functional biodiversity. Natural Farming holds the promise of enhancing 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. Natural Farming is the most important way and alternate of agro ecological sustainability and to mitigate and address the climate change as well as chemical free agriculture.

There is need to eliminate chemicals in agriculture gradually, besides this is urgent need to promote reduce the cost of reduction technologies and crops cultivation as well as livestock rearing for empowering the farming families.

Demonstration on Natural Farming were given with 200 litre capacity plastic drums and tubs for preparation of Jeewamrit to 16 farmers for increasing awareness on it. One on-campus training and 10 kisan Goshthis were also conducted which benefitted 180 farmers. Scientist of KVK were also participated in the National Workshop and trainings organized at Gwalior and Kurukshetra, respectively in 2022-23. Three on-campus training were conducted which benefitted 120 farmers. Scientist of KVK was also participated in the National Workshop and 14 days training at MPUAT, Udaipur in 2023-24.

- **TSP:** TSP activity started at KVK Sirohi in the year 2017-18. In this activity of ICAR, KVK have significantly worked towards the upliftment of livelihood of tribal farmers through increasing their farm income. Rhode Island Red breed demonstrated to 87 farmers (42 days old 20 chicks to each farmer). Farmers found it a stable source of income. Farmers get income not only through selling eggs but also by selling chicks. Storage bin demonstrated to 30 farmers of selected village under TSP. Overall savings enhanced the per unit income by saving cost of buying seeds as well as cost of pesticides use to kill storage grain pests. Knapsack sprayers were demonstrated to 50 farmers which benefitted in terms of labor requirement which was high in case of manual sprayer. Tarpulins were demonstrated to 30 farmers for drying of fennel & other crops. FLDs were given on wheat (DBW-187) to 25 farmers and cumin (GC-4) to 10 farmers which were proved most effective quality seed and to make farmers aware of using efficient agricultural technologies. Total 3 off campus and 3 on campus trainings were organized which benefitted total 250 farmers. Farmers earned 1890 rupees per month through poultry and about 20000/per season through inclusion of nutri-garden in their traditional farm practices. Total 180 farmers were directly benefitted and 850 farmers were indirectly benefitted through kisan goshthi, kisanmela etc.
- **Swachhata Hi Sewa 2023:** Swachhata Hi Sewa 2023 for cleanliness was organized from 15th Sept. 2023 to 2nd Oct. 2023. Banners were displayed in prominent places to create awareness. Activities like maintenance of KVK records and digitization of records, Cleanliness drive in nearby bus stand, markets, temples etc., Swachhta Diwas celebration etc. All the staff members of the institute took active part for taking Swachhata pledge. The staff members of the KVK and READY students of CoA, Nagaur actively participated in many activities like spreading awareness among the villagers and school students about cleanliness by organizing quiz and essay competitions explained the benefits of compost pits by utilizing kitchen wastes. The cleaning of sewerage & water lines were done by the staff members inside the institute campus. Further, the staff members also participated in the cleaning activity in the KVK campus units like nursery, nutri-garden, orchards, office building, goat and poultry unit. Swachhta Hi Sewa program was organized at local level with the help of the farmers, farm women and village youth in new village not adopted by any institute. Scientists visited the villages Paldi-M and Gol, Arthwara and shared their knowledge about swachhata, compost preparation, minimizing the use of plastics, poultry farming and animal husbandry etc.
- **One Product One KVK:-** One Product One KVK activity is started from 2022 to identify a selective product for each KVK for value addition activities and revenue generation. Saunf is 'One District One Product' (ODOP) for Sirohi. To promote Vocal for Local and ODOP schemes of Govt of India. In same line of action KVK Sirohi is selected *Abu Saunf based products Sharbat, Packed Saunf and Saunf Instant Mix*. Product is branded and promoted by name "**MARUDHARA**". *Marudhara Aabu Saunf Sharbat* was launched by dignitaries on **Rashtriya**

Poshan Diwas (17 Sept 2022). Abu Sunf based products Sharbat, Packed Saunf and Saunf Instant Mix etc. has now been sold to people for ensuring their nutritional security.

- **Viksit Bharat Sankalp Yatra** was a government initiative being undertaken across the country starting from 15th November, 2023 to 26th January, 2024 to raise awareness about and track the implementation of flagship central schemes. This specified timeline indicated an active and dedicated period of initiatives aimed at rural development. During this period, the VBSY was likely to intensify efforts in key areas such as agriculture, education, health care and skill development. The schemes in VBSY have four aims i.e. to reach out to the vulnerable that are eligible under various schemes but have not availed benefits so far, dissemination of information generating awareness about schemes, interaction with beneficiaries of different government schemes through their personal stories sharing and enrolment of potential beneficiaries through details ascertained during yatra. The Government of India, with participation of states and union territories was actively engaged in the mission of saturation through its flagship schemes for providing basic amenities like sanitation facilities, essential financial services, access to LPG connections, housing for the poor, food security, proper nutrition, reliable health care, clean drinking water, quality education etc. and made required services accessible to all targeted and eligible beneficiaries.

Viksit Bharat Sankalp Yatra was started in Rajasthan from 16th December 2023 aiming at fostering rural development as a whole. Ministry of Agriculture and Farmers welfare, Ministry of Rural Development and Ministry of Tribal Affairs were the nodal ministers for rural areas and Ministry of Information and broadcasting, Ministry of Housing and Urban Affairs were the nodal ministers for urban areas. Officials of DRDO, District Health Department, Electricity, Irrigation, Gramapanchayat Secretary, members of Self Help Groups (SHG), Department of Agriculture, Krishi Vigyan Kendra etc. were involved for providing assistance and awareness regarding various schemes of VBSY such as PM Ujjwala Yojana, PM Jeevan Jyoti Bima Yojana, Ayushman Bharat, My Bharat Volunteer, Har Ghar Jal: Jal Jeevan Mission, PM Sva Nidhi Camp, Direct Benefit transfer, Jhan Dhan Yojana, PM Aawas Yojana, PM Suraksha Bima Yojana, PM Fasal Bima Yojana etc. Calendars, brochures, booklets, T-shirts and caps were also distributed. Krishi Vigyan Kendras in the state actively participated in this journey, providing farmers with hands-on training, access to modern farming techniques and knowledge sharing platforms

In a short span of just one month, the Yatra has reached more than 40,000 citizens across 170 Gram Panchayats (GPs) in Sirohi district. Scientists of KVKs of different discipline daily covered gram panchayats of 5 blocks in sirohi district. Krishi Vigyan Kendra, Sirohi and Agriculture Department collaboratively participated in this yatra. Lectures were delivered on various KVK's activities for sustainable development through natural farming, Nursery and orchard management, Soil Health Card, cluster front line demonstration under National Food Security Mission, PM Kisan Samman Nidhi scheme and Tribal Sub Plan etc by scientists. Demonstration of drone spraying pesticides and liquid fertilizer were also being organized for the people which have become a centre of attraction. Individual success stories

were also weaved into the yatra where more than 100 beneficiaries presented ‘Meri Kahani Meri Zubani’ a testimony on transformation brought about by the government’s schemes in their lives. Pamphlets, folders and booklets were

Overall, the VBSY in Rajasthan embodied a comprehensive approach to rural development, recognizing the interconnectedness of various sectors. By engaging with local communities and leveraging the expertise of KVKs, the yatra aimed to leave a lasting impact, fostering sustainable progress and empowering the people of Rajasthan.

- **Mission LiFE:** Mission LiFE is a global initiative and India’s way to combat climate change and promote sustainable living to achieve the United Nation’s Sustainable Development Goals and build a mass movement for “mindful and deliberate utilization, instead of mindless and destructive consumption” to protect and preserve the environment. India is the first country to include LiFE in its Nationally Determined Contributions (NDCs), which is a climate action plan to cut emissions and adapt to climate impacts.

Aim of Mission LiFE Campaign

According to Ministry of Environment, Forest and Climate Change and NITI Aayog, the campaign aims to do the following:

1. Nudge individuals and communities to practice a lifestyle that is synchronous with nature and does not harm it
2. Build an environment-friendly culture and traditional practices in India to bring down the carbon footprint per person.
3. The campaign seeks to translate the vision of LiFE into measurable impact. It is designed with the objective to mobilise at least one billion Indians and other global citizens to take individual and collective action for protecting and conserving the environment in the period 2022–28
4. The campaign also aims to make at least 80 percent of all Indian villages and urban local bodies environment-friendly by 2028.

This year, World Environment Day 2023 has been celebrated on ‘Mission LiFE’ Themes in India. Mission LiFE activities were based on four basic themes of agriculture i.e. Promotion of Climate resilient crops/ varieties/seeds in NICRA village, Soil health management, Rainwater harvesting, Natural farming and tree planting on 05th June in which total 215 farmers has participated. Kisan Goshthies were organized for the farmers on and off campus.

- **NARI (Nutri-Sensitive Agricultural Resources and Innovation)-** It is a woman centered programme that is by the woman and for the woman. This is a new initiative to strengthen the farm woman in the community. It will provide nutrition security to the women and children. It will not only provide nutrition security to farm women and their family but also helpful to maintain their nutritional status. It will be further contribute to reduce malnutrition in the community. Hence the project is planned with following objectives.

Objectives-

1. To combine nutrition and agriculture to promote Nutri Sensitive Agriculture.
2. To aware farm women and rural youth for Nutri Sensitive Agriculture.
3. To create awareness for nutri garden.

Activities under the NARI Scheme not only focused to ensure food security but also concentrate on nutritional security to farm woman and their families. It will further contribute to combat malnutrition. Following activities were conducted under NARI Scheme as:- Nutrition

awareness camps were organized to aware the general mass regarding food and its nutritional aspect.

➤ **DAMU :**

Meteorology:- Preparation of weather forecast based agricultural advisory bulletin and disseminating to the farmers of Sirohi district through mass media, extension agencies, government and non-governmental organizations. To make people aware about diseases and pests in crops with agricultural advice.

Meghdoot App:- Gives the information to farmers about the weather, Meghdoot app is proving very beneficial in the farming of the farmers. This app has been jointly released by Ministry of Agriculture and Ministry of Earth Sciences. Many times farmers irrigate the crop in the morning and it rains in the evening, in such a way, with the help of this app, the farmers will get all the information sitting at home. With which the farmer is saved from unnecessary expenses, along with the weather, all the information about farming, farming and animal husbandry are also available in this app.

Damini App:- Indian Institute of Thermal Meteorology, Pune, Ministry of Earth Sciences has launched an app named Damini. The Earth Ministry has set up a lightning location network with 48 sensors in 48 parts of the country, this app will give every moment information about the weather to the farmer as well as issue an alert about celestial lightning. On getting the lightning alert, the farmers working in the fields can reach to the safe place in time. According to the location, there will be a warning of lightning in the 20 km radius of the area. With the help of this app, people will be warned about thunderclap on mobile phones. The warning will be received through audio and SMS 30 to 40 minutes before lightning, this app will give accurate forecast of thunderstorm in a radius of 40 square kilometers.

Agricultural Weather Advisory: - The District Agricultural Meteorological Unit prepares useful agricultural advice for farmers with the advice of all agricultural experts, twice a week on Tuesday and Friday. Important advice for animal husbandry is also given in the Agricultural Weather Advice. These agricultural weather advisories are disseminated through the spread message, WhatsApp, email, etc.