KRISHI VIGYAN KENDRA, KOTA
(Agriculture University, Kota)

ANNUAL PROGRESS REPORT: 2023

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	40	766	712	1478
Rural youths	9	148	76	224
Extension functionaries	1	39	15	54
Sponsored Training	5	256	95	351
Vocational Training	2	61	23	84
Total	**57**	**1270**	**921**	**2191**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds (NFSM)	225	70.0	225
Pulses (NFSM)	125	50.0	125
TSP	114	53.2	114
Nutri-garden	50	1.0	50
MIDH	5	2.5	5
Total	**559**	**176.70**	**559**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	2	20	20
Livestock	2	10	10
Total	**04**	**30**	**30**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	211	101836
Total	**211**	**101836**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Kota	Text only	10		5		10	10	35
	Voice only							
	Voice & Text both	5				10	10	25
	Total Messages	**15**		**5**		**20**	**20**	**60**
	Total farmers Benefitted	**15000**		**2000**		**13000**	**10000**	**40000**

6. Seed & Planting Material Production

	Quantity/Number	Gross Value (in Lakh)
Pulse seed hub (q)	294.50	25.43
Oilseed hub-Mustard (q)	258.0	30.96
KVK Instrunctional farm (q)	1658.0	97.22
Planting material (No.)		
Fruits (Papaya, guava, jamun, lime)	12500	2.60
Ornamentals (Crotens, moneyplants, Duranta, Iresin)	6800	0.75
Bio-Products (kg)		
vermicompost	10000	1.50
vermi culture	120	0.15
Trichoderma	980	1.96
Food Processing Material (Juice & Oil (q) Pickle, Murabba, Chawnprash, (Kg)	1000	2.50
Gir Cow Milk Production (Litre)	19244	9.92
Gir Cow Ghee (Litre)	67	1.00
Buttermilk (L)	700	0.14
Sale of Gir Cow and Male Calf	18	5.36
Sale of goat (male and female)	58	6.75
Total		**186.24**

7. Soil, water & plant Analysis

Samples		No. of Beneficiaries	Value Rs.
Soil	100	100	-
Total	**100**	**100**	**-**

8. HRD and Publications

Sr. No.	Category	Number	Sr. No.	Category	Number
1	Workshops	1	8	Research papers	09
2	Conferences	0	9	Lead papers	0
3	Meetings	5	10	Seminar papers	01
4	Trainings for KVK officials	0	11	Extension folder	03
5	Visits of KVK officials	20	12	Proceedings	02
6	Book published	0	13	Award & recognition	05
7	Training Manual	01	14	Ongoing research projects	08

Krishi Vigyan Kendra, Kota

(Directorate of Extension Education)

Agriculture University, Kota

DETAIL REPORT OF APR-2023

GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Borkhera, Kota (Rajasthan)	Office 0744-2326726	FAX 0744-2326726	kvkborkherakota@gmail.com www.kvkkota.com

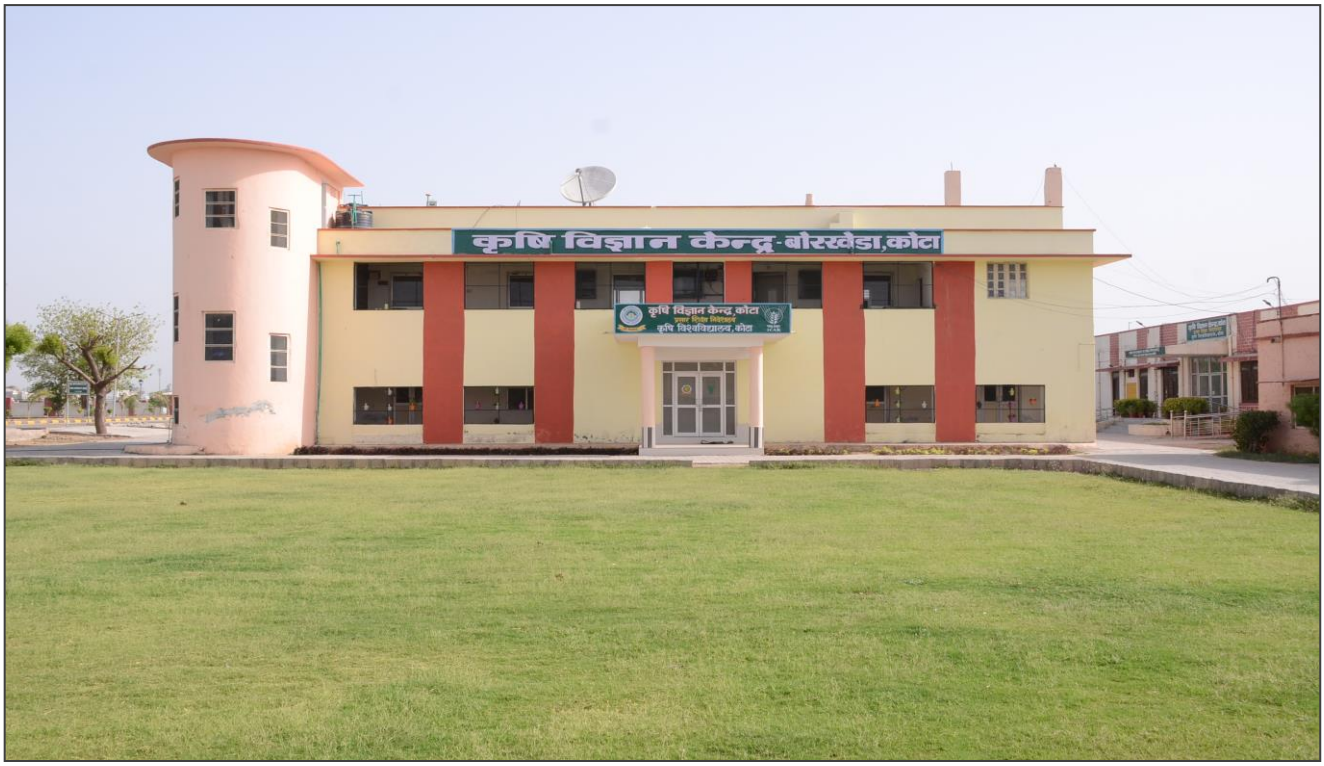
1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Agriculture University, Borkhera, Baran Road, Kota-324001	0744-2321204	0744-2321203	vcaukota@gmail.com www.aukota.org
Directorate of Extension Education, Kota	0744-2326727	0744-2326727	deeaukota@gmail.com

1.3. Name of the Senior Scientist and Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Mahendra Singh		94142-13488	kvkborkherakota@gmail.com

1.4. Year of sanction of KVK : 1992



1.5. Staff Position (as on 30th December, 2023)

S. No.	Sanctioned post	Name of the incumbent	Desig-nation	Discip line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Cat.	Mobile no.	Age	Email id
1	Sr. Scientist and Head	Dr. Mahendra Singh	SS&H	A.H.	37400-67000	177200	01.08.13	Permanent	Gen.	9414213488	57	mskvktonk@gmail.com
2	SMS	Dr. K.C. Meena	Asso. Prof.	Agri. Ext.	37400-67000	161600	07.10.23	Permanent	ST	9602956432	50	kamal@aukota.org
3		Dr. Rakesh Kumar Bairwa	Asso. Prof.	Agro.	37400-67000	147900	01.10.20	Permanent	SC	9413093805	43	rb_agro@rediffmail.com
4		Dr. Roop Singh	SMS	PP	15600-39100	63100	01.10.20	Permanent	Gen.	9571889881	31	roop0008@gmail.com
5		Mrs.Gunjan Sanadhya	SMS	H. Sc.	15600-39100	63100	07.01.12	Permanent	Gen	9462312966	43	gunjansharma1982@gmail.com
6		Vacant										
7		Vacant										
8	Programme Assistant	Sarita	TA	Agric.	9300-34800	41300	15.07.20	Permanent	OBC	9785360660	27	saritabeniwal17@gmail.com
9	Computer Programmer	Vacant										
10	Farm Manager	Dr. Mukesh Choudhary	TA	Agric.	9300-34800	41300	01.10.20	Permanent	OBC	9680750819	32	mukeshnetad2013@gmail.com
11	Accountant / Superintendent	Vacant										
12	Stenographer	Vacant										
13	Driver	Sh.Tara Chand	Driver	-	5200-20200	40900	04.04.03	Permanent	OBC	9352503640	53	
14		Jagdish Prasad	Driver	-	9300-34800	72400	01.10.20	Permanent	OBC	9460676913	57	
15	Supporting staff	Vacant										
16		Vacant										

* Sh. Rahul Gupta, Clerk grade I, deputed at KVK from Agriculture University, Kota

1.6. Total land with KVK (in ha) : 44.0 ha

S. No.	Item	Area (ha.)
1	Under Buildings (KVK/University)	11.0
2.	Under Demonstration Units	2.5
3.	Under Crops	28.0
4.	Orchard/Agro-forestry	2.5
	Total	**44.0**

1.7. Infrastructural Development

A) Buildings

S. No	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. In lac)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	GOR	1964	550	-	-	-	-
2.	Farmers Hostel	ICAR	1996	476	-	-	-	-
3.	Staff Quarters (6)	ICAR	2006	400	-	-	-	-
4.	Demonstration Units (2)				-	-	-	-
a	Vermi compost unit	ICAR	2006	200	3.20	-	-	-
b	IPM Lab	ICAR	2006	150	-	-	-	-
5	Fencing	ICAR	2005	300m	-	-	-	-
6	Roof Water harvesting system	ICAR	2006	80	0.80	-	-	-
7	Threshing floor	ICAR	2006	80	1.00	-	-	-
8	Farm godown	GOR	1964	60	-	-	-	-
9.	Model nursery of Medicinal and Aromatic plants	NHM	2011	85	20.00	-	-	-
10	Model nursery	NHM	2009	220	18.00	-	-	-
11	Soil Testing Lab	ICAR	2007		10.00	-	-	-
12.	Automatic weather Station	NHM	2010	9	4.25	-	-	-
13.	Plant Health Clinic	ICAR	2012	30	10.00	-	-	-
14	Model food processing unit	RKVY	2017		90.00	-	-	-
15	Model dairy unit	RKVY	2017		40.00	-	-	-
16	RKVY Building	RKVY	2016	402	104.00	-	-	-
17.	Pulse seed storage & processing unit	ICAR	2017	-	50.00	-	-	-
18.	Model goat unit	RKVY	2018		40.00			
19.	Common Incubation Center (CIC)	MoFPI	2022		300.39			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total Kms. Run	Present status
Jeep Bolero	2006	464992	322846	Condemn
Tractor-Novo	2023	858000	1171 hr	good
Motor Cycle	2011	50000	106240	good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Digital Camera	2007		OK
Computer	2005-08		OK
LCD	2007		OK
K-yan	2012		OK
DVD Player	2002		OK
Video Conferencing	2008		Not Working
ERNET Lab.	2009		Not Working
AC 2.0 ton (2) with stabilizer	2016-17	87360	OK
Water cooler with RO	2016-17	85100	OK
Laptop (HP -1 SCS 3006TX)	813/16.12.2019	61850	OK
Water cooler with RO	GOVT00023/26.03.21	80000	Ok
Canon Camera with accessories	20-21/445/27.03.21	98500	OK
Wooden Centre Table	503/15.03.21	9500	OK
Dell desktop computers with accessories	59/24.03.21	73000	OK

D) Furniture & equipments (RKVY- Dairy project)

S.No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1.	Pulverizer	2015-16	4,40,000	OK
2.	Milk parlour & milking machine	2016-17	3,82,000	OK
3.	Bio-gas plant (10 m^3)	2016-17	3,56,000	OK

E) Furniture & equipments (RKVY-food processing project)

S.No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1.	Godrej Revolving Hi Back Chair Model Halo PCH-9201 R-(No.02)	2014-15	77,984	OK
2.	Godrej Regency visitor chair PCH-7003D (No.06)	2014-15	39,237	OK
3.	Godrej 04 Door Bookcase (No.02)	2014-15	35,297	OK
4.	Godrej Single Static's 457 Depth 1 bay pull push type	2014-15	16,247	OK
5.	Godrej Single Last 457 Depth 1 bay pull push type	2014-15	18,260	OK
6.	Godrej Twin Mobile 457 Depth 1 bay pull push type	2014-15	27,929	OK
7.	Lecture Stand	2015-16	14,770	OK
8.	Office table	2016-17	44,800	OK
9.	Demonstration table (02)	2016-17	17,000	OK
10.	Conference Chair (90)	2016-17	1,98,000	OK
11.	Computer table (01)	2016-17	5,700	OK
12.	Vertical Sliding Door Unit (04)	2016-17	80,000	OK
13.	Computer Revolving Chair	2016-17	4,148	OK
14.	Revolving chair in leather (06)	2016-17	62,760	OK
15.	Table with drawer & lock (04)	2016-17	35,680	OK
16.	Conference table (34-seater) coffee colour	2016-17	1,58,000	OK
17.	Display table (02)	2016-17	19,996	OK
18.	Ahuja CMD-4200 (15 pcs)	2016-17	77,100	OK
19.	Ahuja CMC-4100(01 pc)	2016-17	5,770	OK
20.	Ahuja CMA-4400(01 pc)	2016-17	13,600	OK
21.	Ahuja SCM=15 T (04 pcs)	2016-17	3,400	OK
22.	Deep freezer (Quick Freezer) Horizontal, Capacity:6 cu.ft., with Digital Temperature Controller (SONAR)	2014-15	92,459	OK
23.	Laboratory Digital Electronic Balance Capacity: 220	2014-15	89,848	OK

	gm., Readability:0.001 gm. Built in Motorized Calibration, BSA 223S-CW			
24.	Double Beam UV Vis Spectrophotometer with one pair of 10mm path length Quartz Cuvettes SL-210 (ELICO)	2014-15	2,33,334	OK
25.	Window based Software (Spectra treats) for PC Interface (ELICO)	2014-15	30,086	OK
26.	K-Yan (Community Computer) =UV Premium with Inbuilt Interactivity-Extra Chargable Interactivity Pen	2014-15	97,650	OK
27.	Canon Lxus 265 HS Sony Micro Sc Card 16 Gb	2014-15	9,950	OK
28.	LG Microwave model-2841 sps S/S 2 pic Borosil Bowd	2014-15	14,800	OK
29.	Full SS carrot/Amla stone remover	2015-16	38,930	OK
30.	Full SS Orange Juicer	2015-16	23,473	OK
31.	1.5 HP Mixture	2015-16	13,626	OK
32	Pulverizer 2 HP motor/Tomato pulpier	2015-16	16,030	OK
33	2 TB USB Hard Disk make Dell	2015-16	9,450	OK
34	Shrink Wrapping	2015-16	45,800	
35	Cup Sealer (Manual)	2015-16	9,732	OK
36	Bottle Crown Corking Machine	2015-16	8,500	OK
37	Paneer press (Manual)	2015-16	10,877	OK
38	Haier D- freeze cap. 780	2015-16	48,980	OK
39	Stabilizer 1 Kv 90 wt.	2015-16	7,480	OK
40	Vacuum packing machine	2015-16	56,250	OK
41	Voltas make AC 1.5-ton split AC 5 star (2)	2015-16	73,675	OK
42	Vegetable cutting machine	2015-16	25,763	OK
43	Backing oven single deck	2015-16	28,625	OK
44	Sealing machine	2015-16	9,733	OK
45	Dry pulverize machine	2015-16	35,539	OK
46	Batch Coding/Final sealing Machine	2016-17	79,378	OK
47	S.S. Jacketed Kettle	2016-17	98,115	OK
48	Vegetable Washer	2016-17	58,489	OK
49	Nitrogen Sealing/Flexible Pouch Sealing Machine/Bend Sealer	2016-17	99,170	OK
50	Pineapple Slicer	2016-17	67,889	OK
51	Vegetable Dehydrator	2016-17	1,00,267	OK
52	Alovera Plup Extractor Machine	2016-17	1,01,312	OK
53	Bottle Starlizer	2016-17	167,536	OK
54	Blender Mixing Tank 100 Ltr. /Blancher	2016-17	93,687	OK
55	Fully Automatic Atta Chakki	2016-17	21,890	OK
56	Refrigerator Haier 210-215 Ltr. (2 no.)	2016-17	37,000	OK
57	Dishwasher/Utensil Cleaner (12 place settings)	2016-17	43,500	OK
58	SuJata Juicer mix.	2016-17	4,500	OK
59	UPS-3.6 KVA (1 no.) with 4 batteries	2016-17	62,000	OK
60	PHE (Double Stage) with Cooling Tower	2016-17	99,988	OK
61	Amla Punching Machine	2016-17	69,833	OK
62	Soya Paneer Plant	2016-17	1,79,714	OK
63	Sterlizer/Tomato Processor	2016-17	59,856	OK
64	Dry Garlic Peeling Machine	2016-17	1,06,404	OK
65	Compressor for Garlic	2016-17	1,06,404	OK
66	Boiler	2016-17	1,90,000	OK
67	Seal packing machine	2016-17	56,436	OK
68	Juice Extracting machine	2016-17	1,10,513	OK
69	Bottle washing machine	2016-17	23,250	OK
70	Multi functional vegetable & fruits cutting machine	2016-17	34,013	OK
71	Mixing tank with filling nozzle	2016-17	49,000	OK
72	Interconnecting SS/MS pipe lines, valves &	2016-17	49,000	OK
73	Seed grading plant, pellet, seed cum fertilizer	2017-18	15,00,000	OK
74	Grain Cleaning machine	154/5.8.2020	34200	OK

75	Filter Press machine	153/5.8.2020	65501	OK
76	Oil spaler 10 kg	21-42/5.8.2020	152002	OK
77	Crayogenic Grinder (Transferred from KVK Anta)	186/28.3.2020	1428390	OK

F) Furniture & equipments (RKVY drumstick project)

S.No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1.	Visitor chair (6)	2017-18	13200	OK
2.	Revolving chair (2)	2017-18	7200	
3.	Office table (2)	2017-18	14400	OK
4.	Drip irrigation system	2018-19	174748	OK

G) Furniture & equipments (NICRA project)

S.No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
1.	Grass cutter/power weeder	2018-19	30000	OK
2.	IT equipment	2018-19	5000	OK
3.	Power weeder	886/3.3.20	41000	OK

H) Farm implement (RKVY project)

S.No.	Name of the implement	Bill no./Year of purchase	Cost (Rs.)	Present status
1.	Multicrop Thresher	320/18.3.20	273000	OK
2.	Seed drill	209/18.3.20	33600	OK
3.	Rotavator	296/9.12.20	99400	OK
4.	Irrigation Pipe	5704/18.6.2019	52831	OK

I) Seed processing (Oilseed hub)

S.No.	Name of the equipment	Bill no./Year of purchase	Cost (Rs.)	Present status
1.	Seed processing machine	670/21.3.2020	536849	OK
2.	Pellets	6146911893/3.3.2020	153000	OK

1.8. A) Details of 30th SAC meeting conducted in the year: 26.05.2023

S. No.	Name of Participants	Designation
1	Dr. A. K Vyas	Hon'ble Vice Chancellor, AU, Kota
2	Dr. S.K. Jain	Director Ext. Edu., AU, Kota
3	Dr. Pratap Singh	Director Research, AU, Kota
4	Dr. M. C. Jain	Dean, COA, Kota
5	Dr. M.S. Meena	PS (AE), ICAR- ATARI, Jodhpur
6	Dr. Ramavtar Jat	PS, ICAR-IISWC, R.C, Kota
7	Sh. P. K. Gupta	Additional Director (Ag), Kota
8	Sh. J. K. Sharma	Project Director, CAD, Kota
9	Sh. Khemraj Sharma	Joint. Director Ag. (Ext.), Agriculture deptt., Kota
10	Dr. P. K. Singh	Joint. Director (Horti.), Kota
11	Sh. R.P. Sharma	DDM, NABARD
12	Sh. K. R. Meena	LDM, Kota
13	Sh. Shanker Lal Jangir	Assoc. Director SIAM, Kota
14	Sh. Anandi Lal Meena	Dy. Director Kota Horticutlure, Kota

15	Sh. S. L. Meena	Director, RSETHI, Kota
16	Sh. B. L. Soni	RSETHI, Kota
17	Dr. Ashok Kumar Malav	ASCO, RSSOCA, Kota
18	Dr. Arjun Verma	Officer Incharge, MAF, Kota
19	Dr. Tanoj choudhary	DEO, CAD, Sultanpur
20	Sh. Abdul Khan	Dy. Director (AG), CAD, Kota
21	Dr. Deva Ram Maghwal	Nodal Officer, AC&ABC, Kota
22	Sh. A. K. Mishra	Sr. Tech. Officer(H) NHRDF, Kota
23	Dr. Amirita Pritam Shivani	Assistant Director, Fisheries deptt., Kota
24	Sh. Satyaprakash Meena	Asstt.Director (Horti.), Kota
25	Sh. Lala Ram Chaudhary	Area Manager, IFFCO, Kota
26	Sh. Mukesh Kumar Verma	Area Manager, NSC, Kota
27	Sh. Anil Kumar	Dy. PD, ATMA, Kota
28	Sh. Shahil Singh	DTE-NF, RAJEEVIKA, Kota
29	Dr. Sandeep Bhuskat	SVO, AH, Kota
30	Smt. Smrita	District Resource Person, PMFME
31	Sh. Hariom Meena	Program Head, AIR, Kota
32	Sh. Suresh Kuma Gautam	Programm Executive, AIR, Kota
33	Smt. Hemlata Songra	Progressive farm Women, Kota
34	Smt. Suman Sharma	Progressive farm Women, Kota
35	Smt. Babi Rani	Progressive farm Women, Kota
36	Sh. Suresh Meena	Progressive farmers village Raikheda
37	Durgesh Kumari Kushwah	FPO, Chechat
38	Sh. Santosh Kumar Meghwal	Bhairwi Kisan Farmers Producer Organization, Fanda, Kota
39	Dr. Mahendra Singh	Senior Scientist & Head, Kota

Minutes of 30th SAC meeting (26.05.2023)

The 30th Scientific Advisory Committee (SAC) meeting of KVK, Kota was held on 26.05.2023, Friday under the chairmanship of Dr. Abhay Kumar Vyas, Hon'ble Vice Chancellor, Agriculture University, Kota to review the progress of different mandated activities of the centre and the action plan for the ensuing year. The meeting began with Saraswati Vandana \

First of all, Dr. Mahendra Singh, Senior Scientist and Head, KVK, Kota welcomed honorable guests and presented the action taken report on the recommendations of the 29th SAC meeting which was held on 18.05.2022. Senior Scientist and Head, KVK, Kota presented the detailed progress report of 2022-23 and annual workplan for ensuing year 2023-24 of KVK, Kota. The session opened for discussion & suggestions before the house.

Dr. Abhay Kumar Vyas, Hon'ble Vice Chancellor, Agriculture University, Kota appreciated and motivated the scientists to work with zeal. He suggested that hydroponic and vertical farming units should be established at KVK. He emphasized there is a need to organization of workshop of successful agripreneurs of the district. The skill development trainings should be conducted according to guidelines.

Visits of school students need to be increased to increase their knowledge in agriculture. He emphasized there is a need of documentation of successful agripreneurs of the district. He also suggested to identify the needs of stakeholders and share the relevant technology with them. There is need to develop innovative business model for sustainable income generation of the farmers. There should be an approach for feedback of farmers and impact assessment of each technology.

Dr. M.S. Meena, Principal Scientist, ICAR-ATARI zone II, Jodhpur emphasized on income generation demonstration units at farmers field under TSP scheme and crop-based demonstrations should be link up with other schemes like NFSM, MIDH and KVK contingency grant. He suggested that detailed project reports (DPR) should be prepared for farmers/rural youth. He also pointed out that updating of KVK activities on KVK portal on regular basis. There is need to upload list of successful agripreneurs of the district on KVK website. He also suggested that need based training programme should be planned and on farm trials (OFTs) should be problem based.

Dr. S. K. Jain, Director Extension Education, Agriculture University, Kota emphasized on upgradation of the nursery unit and need to increase planting materials i.e., ornamentals, fruit plants and vegetable seedlings to ensure round the year availability. There is need of establishment of mushroom demonstration unit to conduct vocational/skill development training programme.

Dr. Pratap Singh, Director Research, Agriculture University, Kota suggested that pre- and post-harvest soil nutrient compositions should be tested of natural farming plots. There is need to promote direct seeded rice (DSR) in rice growing areas of the district. Dr. M.C. Jain, Dean, College of Agriculture, Kota suggested that each on farm trials (OFTs) should be frame and finalize in ZREAC meeting so the recommendations will be included in package of practices of the zone.

Dr. P. K. Gupta, Additional Director (Agriculture Extension) Kota suggested to increase the vegetable production in the district. He also insisted that the KVK and line departments should work together for uplifting the socio-economic conditions of farmers. There is a need to conduct demonstrations on climate resilient varieties. Sh. Khemraj Sharma, Joint Director (Agriculture Extension), Kota suggested that the sale rate of seeds should be at par with RSSC, NSC etc. There is need to organize more numbers of joint field visits of KVK scientists and officers of line department at farmers field to get more feedback problems.

Dr. Ramavatar Jat, Principal Scientist, ICAR-IISWC-regional center, Kota suggested that marketing intelligence should be focused in each skill development training programme. There is need of intercropping demonstration, pest management inputs demonstration in natural farming. Sh. S.L. Jangir, Associate Director, SIAM, Kota suggested to work for increasing the area under citrus orchard in the district.

Sh. Ram Prasad Sharma, DDM, NABARD, Kota emphasized that there is a need of technical support for FPOs in the district. Mrs. Smrita, Nodal officer, PMFME, MoFPI, Kota suggested to make one working group for entrepreneurs for technical support and guidance of them.

All the SAC members gave their valuable suggestions for strengthening mandated activities of KVK in the forthcoming year. The event was attended by all the members of SAC, comprising officials of line departments, other invitees from government institutes, NGOs, FPOs, NABARD and progressive farmers. All the suggestions received from the participants were noted down for the action to be initiated in the ensuing year. Publication of the scientists were released by the dignitaries during the occasion. Dr. B.L. Nagar, Scientist (Horticulture) proposed vote of thanks to the chief guest and all members of the meeting. The meeting adjourned with the permission of chairs.

Dr. A. K. Vyas, HVC, Agriculture University, Kota addressing stakeholders of 30th SAC on 26.05.2023

1.8 B) Visit of Dr. T. C. Jain, Senior Agriculturist, World Bank

Dr. T.C. Jain, Senior Agriculturist, World Bank visited all live units *viz*., Model Dairy, Goat unit, Food processing & value addition etc., and appreciated the work of KVK, Kota.

Dr. T.C. Jain, Senior Agriculturist, World Bank visiting Model Dairy, Goat unit, Food processing & value addition unit of KVK, Kota on 13.09.2023

2. DETAILS OF DISTRICT

2.1 Land use pattern of Kota district

S. No.	Particulars	Area (ha)	Per cent to total
1.	Total Geographical area	5,18,345	100
2.	Forest	1,26,199	24.34
3.	Area under non agriculture use	31,493	6.07
4.	Barren and unculturable land	30,428	5.87
5.	Permanent pastures and other grazing lands	13,950	2.69
6.	Land under misc. trees crops & groves	762	0.14
7.	Cultivable waste land	25,222	4.86
8.	Current fallows	6,726	1.29
9.	Net area sown	2,73,484	52.76
10.	Area sown more than once	2,18,609	-
11.	Total cropped area	4,92,093	-
12.	Cropping intensity (%)		180

2.2 Major farming systems (based on the analysis made by the KVK)

S. No	Farming systems/enterprise
1.	Crops + dairy animals
2.	Crops + horticulture
3.	Crops + dairy animals+ horticulture

S. No.	Existing cropping system
1.	Soybean – wheat
2.	Black gram – wheat
3.	Paddy – wheat
4.	Black gram– mustard / chickpea/garlic
5.	Soybean – coriander / garlic

2.3 Agro-climatic zone and major agro ecological situations

(A) Soil Type

S. No	Agro-climatic Zone	Characteristics
1	Humid South Eastern Plain Zone V	The KVK comes under the zone V (Humid South Eastern Plain) of Rajasthan which covers a geographical area of about 2.7m. ha covering Jhalawar, Kota, Bundi, Baran districts, out of which about 1.8m. ha is under cultivation. The percentage of irrigated area is only 25.5 and remaining comes under rain fed & dry land condition. The rain fall varies from 650mm to 1000mm. The max. mean daily temperature ranges from 24.5^{o}C in the month of January & 42.6 ^{o}C in May & minimum 10^{o}C in January & 19.7^{o}C in month of May respectively. The predominant soils of the zone has black soils of alluvial origin with clay loam to clay in texture in which some pockets are affected and encountered by ground water salinity.

(B)Topography

S. No.	Agro ecological situation	Characteristics
1	Command area with assured irrigation and heavy soils	Predominantly verti sols having swell and shrink properties responsible for deep creaking
2	Command area with uninsured irrigation and medium soils	Sandy to sandy clay loam of medium to shallow depth
3	Non command area with	Soils are medium black with varying texture and depth

	medium soils and well irrigation	

2.4 Soil types

S. No	Soil type	Characteristics	Area ('000) ha	Per cent (%) of total
1	Deep black clayey	Cracking clay soils are common on plains of basaltic and alluvial parent materials. They are moderately deep and have a light to medium clay surface, which is usually self-mulching, over heavy clay subsoil that cracks during dry periods. Colours include grey, brown and black. The soils' heavy textures coupled with their seasonal shrink-swell characteristics create difficult conditions for plant growth	216.5	42.0
2	Deep brown clayey	Brown gradational soils, common throughout the plain, are moderately deep and well-structured with silty loam to clay loam surface textures and clayey subsoils; in some instances, the B horizons are mottled and an A2 horizon is present; buckshot is common in the upper horizons: the brown gradational soils appear to be slightly poorer-drained variants of the red gradational soils, which are restricted to the better-drained crests, the slopes flanking the volcanic hills and the scarps.	78.4	15.0
3	Deep brown loamy	Soils that exhibit a gradual increase in texture with depth are common on basaltic and sedimentary parent materials. Surface textures range from sandy loams to clay loams and sub soils from clay loams to clays. Soil depth varies markedly	57.6	11.0
4	Saline soil	Saline soils defined as soils having a conductivity of the saturation extract greater than 4 dS m^{-1} and an exchangeable sodium percentage less than 15 Saline soils defined as soils having a conductivity of the saturation extract greater than 4 dS m^{-1} and an exchangeable sodium percentage less than 15. The pH is usually less than 8.5. Formerly these soils were called white alkali soils because of surface crust of white salts.	2.947	0.86
5	Sodic or alkali soil	Alkali or sodic soil is defined as a soil having a conductivity of the saturation extract less than 4 dS m^{-1} and an exchangeable sodium percentage greater than 15. The pH is usually between 8.5–10.0. Most alkali soils, particularly in the arid and semi-arid regions, contain CaCO3 in the profile in some form and constant hydrolysis of CaCO3 sustains the release of OH ions in soil solution. The OH ions so released result in the maintenance of higher pH in calcareous alkali soils than that in non – calcareous alkali soils.	6.223	1.82

2.4 Area, production and productivity of major crops cultivated in the district

Crop	Area (000ha)				Production (000ton)				Productivity (kg/ha)			
	2020-21	2021-22	2022-23	2023	2020-21	2021-22	2022-23	2023	2020-21	2021-22	2022-23	2023
Kharif												
Soybean	185.8	188.1	187.8	182.8	254.3	188.1	80.82	182.8	1368	1000	428	1000
Paddy	35.9	24.2	31.2	38.2	138.9	108.6	110.8	171.8	3694	4486	3544	4499
Urdbean	20.9	31.89	27.6	21.4	12.22	22.3	5.62	14.9	585	142	204	700
Rabi												
Wheat	149.8	120.8	108.25	99.46	655.29	568.5	517.65	-	4375	4705	4782	-
Mustard	28.1	62.3	82.47	72.63	51.9	119.1	139.70	-	1848	1910	1694	-
Chickpea	51.8	49.7	41.49	57.90	95.1	89.7	64.89	-	1835	1803	1564	-
Coriander	26.7	36.2	20.19	10.13	44.1	47.4	27.84	-	1652	1311	1379	-
Garlic	17.3	27.5	11.90	23.55	115.8	175.8	80.92	-	6674	6377	6800	-

Source: Agriculture statistics, GOR,2020-21, 2021-22, 2022-23 & 2023

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January 2023	24.0	25.20	7.40	78.00	60.60
February 2023	0	34.10	14.10	67.40	34.20
March 2023	15.2	34.10	16.60	42.50	18.20
April 2023	0	41.40	20.30	32.40	12.80
May 2023	8.5	43.70	23.10	44.40	13.80
June 2023	165.0	41.50	24.20	90.00	25.40
July 2023	324.0	36.20	21.60	88.40	64.80
August 2023	49.20	35.00	25.10	88.00	72.60
September 2023	125.20	35.10	24.40	85.00	63.10
October 2023	0	36.60	18.90	86.00	55.00
November 2023	0	33.20	14.00	84.60	61.10
December 2023	41.70	23.40	9.80	95.60	48.50
Total	**752.8**	**43.70**	**7.40**	**95.60**	**12.80**

2.6. Production and productivity of livestock, Poultry etc. in the district

Category	Population	Production (000 MT)	Productivity
Cattle			
Crossbred	8151	18.366	8.4 lit.
Indigenous	208192	162.084	5.6 lit.
Buffalo	240628	184.654	7.79lit.
Sheep	22434	36.69 (000 kg)	1.49 kg/animal
Goats	137387	17.381	0.79 lit.
Poultry	22298	58.42 (Lakh)	215 eggs/year

2.7 Details of Operational area / Villages (2023)

Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Ladpura	Charinda, Chainpura, Kheda, Tathed, Sogriya	Soybean, Paddy, Gram, Wheat, Mustard, Coriander, Dairy	Wilt in Chickpea, stem gall in Coriander, Tobacco caterpillar in Soybean, Weed infestation	Productivity enhancement of crops through INM, IWM and IPM in crops, seed treatment, improved animal feeding
Sultanpur	Choma Biboo, Bagtari Chomakot Balapura	Soybean, Gram, Wheat, Mustard, vegetables crops, Dairy	Leaf eating caterpillars in soybean, FMD in animals, Wilt in Chickpea, Weed infestation	Productivity enhancement of crops through INM, IWM and IPM in crops, improved animal feeding & Vaccination in dairy animals
Kherabad	Raikhera, Kaliyakui	Soybean, Gram, Wheat, Mustard, Coriander, Dairy	Wilt in Chickpea, stem gall in Coriander, Tobacco caterpillar in Soybean Weed infestation	Productivity enhancement of crops through INM, IWM and IPM in crops, seed treatment, improved animal feeding
Sangod	Kanwas, Anwa,	Soybean, Wheat, Mustard, Coriander Dairy	Wilt in Chickpea, stem gall in Coriander, Tobacco caterpillar in Soybean, Weed infestation	Productivity enhancement of crops through INM, IWM and IPM in crops, improved animal feeding & Vaccination in dairy animals

Priority/thrust areas

The thrust areas as mentioned below are identified by KVK for the Kota district

S.N.	Crop/Enterprise	Thrust Area
1.	Crops	To enhance the productivity of major crops of district, Promotion of INM, IPM and Natural farming
2.	Fruit crops	Diversification in agriculture through fruits, vegetables and spices crops, INM and IPM practices
3.	Processing and value addition	Entrepreneurship development through value addition in soybean, coriander, garlic, anola, pulses crop etc.
4.	Livestock & Poultry	Feeding, Breed improvement, & Housing management of livestock & poultry
5.	Sustainable agriculture	Promotion of soil health management for sustainable agriculture, integrated farming system (IFS) for more profitability, promote climate resilient technologies
6.	SHGs	Empowerment of rural women in agriculture & allied skills through SHGs and drudgery reducing technologies
7.	FPOs	Formation of FPOs of dairy and value-added products of horticulture crops.
8.	Conservation	Promotion of soil & water conservation practices.
9.	Entrepreneurs	Entrepreneurship development in rural youth through vocational trainings like processing and value addition, Dairy farming, goat rearing, mushroom cultivation, protected cultivation, beekeeping etc.

3. TECHNICAL ACHIEVEMENTS

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

OFT (Technology Assessment and Refinement)				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
4	4	30	30	150	174.45	500	559

Training (including sponsored, vocational and other trainings)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	35	40	1200	1478	180	211	50000	101836
Rural youth	5	9	200	224				
Extn. Functionaries	2	1	50	54				
Total		**50**	**1450**	**1756**	**180**	**211**	**50000**	**101836**

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
			15000	19300	1820

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Disease Management	Chickpea	Management of Collar rot in chickpea	10	10
Integrated Pest Management	Soybean	Management of leaf eating caterpillars in soybean	10	10
Total		**02**	**20**	**20**

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of livestock	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Goat	Assessment of supplementary feeding of goat kids for higher growth rate	05	05
Nutrition management	Cow	Assessment of mineral supplements for better productive and reproductive efficiency in cows	05	05
Total		**02**	**10**	**10**

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

INTEGRATED PEST MANAGEMENT

Technology Assessed: Management of leaf eating caterpillars in soybean

Problem definition: low yield of soybean due to severe incidence (up to 30 %) of foliage feeders

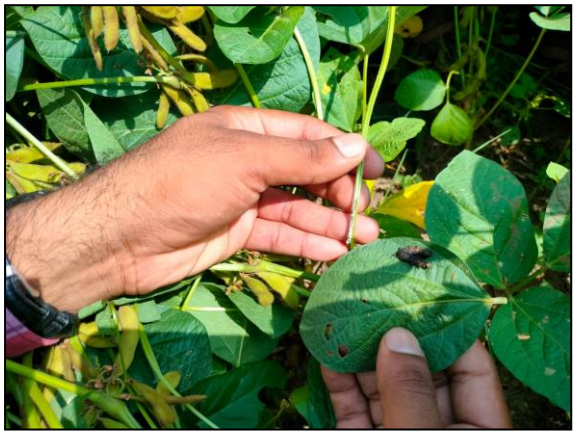
Thematic area: Integrated Pest Management

Source of technology: ICAR-IISR, Indore (MP)

Soybean is a major kharif crop which have 1.88 lakh ha area in the Kota district, however, the incidence of leaf eating caterpillars resulting in yield losses. To avoid losses caused by these defoliator pests' microbial insecticide was used under this on farm testing (OFT) because microbial insecticides play an important role in insect pests management. They are biodegradable in nature and making the soybean cultivation more profitable rather than chemical insecticides. The Results indicated that spray of *Beauveria bassiana* ($1x10^8$ cfu) @ 1 liter/ ha after initial incidence of leaf eating caterpillars and 2^{nd} Spray after 15 days interval found effective and 2.33 average larval population per meter row length (mrl) was recorded as compared to farmers practices (4.00).

Table: Efficacy of *B. bassiana* for management of leaf eating caterpillars in soybean

Technology option	No. of trials	Mean larval population per meter row length (mrl)	Yield q/ha	% Increase in yield over farmer practice	Net return (Rs/ha)	% Increase in Net return	B:C Ratio
T_1- Injudicious use of pesticides (Emamectin benzoate 5 SG @ 180 gm/ha, Clorantraniliprole 18.5 SC @ 100 ml/ha and Profenophos 50 EC @ 1.25 l/ha after severe incidence of leaf eating caterpillars (FP)	10	3.00	14.50	-	31500	-	1.89
T_2- Spray of *Beauveria bassiana* ($1x10^8$ cfu) @ 1 liter/ ha after initial incidence of leaf eating caterpillars and 2nd Spray after 15 days interval (AP)		2.33	15.66	8.00	38036	20.74	2.11



INTEGRATED DISEASE MANAGEMENT

Technology Assessed: Management of Collar rot in Chickpea

Problem definition: low yield of chickpea due to severe incidence (up to 30 %) of collar rot disease

Thematic area: Integrated Disease Management

Source of technology: NIPHM, Hyderabad and POP Zone IIIa of Rajasthan

Chickpea is a major Rabi pulse crop which have 49.70-thousand-hectare area in the Kota district, however, the incidence of collar rot disease at initial stage of plant causes yield losses in chickpea. Therefore, an on-farm testing carried out to assess the efficacy of *Trichoderma* as soil and seed treatment for management of collar rot in chickpea during two consecutive years 2021-22 and 2022-23. The Results indicated that seed treatment with *Trichoderma viride* at 10 g/kg seed plus application of *T. viride* at 5 kg/ha multiplied on decomposed with 100 kg FYM at the time of sowing found lowest mean per cent disease incidence (3.25) as compared to farmers practices (19.49). The average yield of T2 was 23.12 q /ha which was increased by 19.40 per cent over farmers practices (19.20 q/ha).

Table 1 : Efficacy of *T. viride* for management of Collar rot disesae in Chickpea

Technology option	No. of trials	Percent Disease Incidence (PDI) at 40 DAS			Yield q/ha			% Increase in yield over farmer practice		
		2021-22	2022-23	Mean	2021-22	2022-23	Mean	2021-22	2022-23	Mean
T_1- Seed treatment with vitavex (Carboxin 37.5% + Thiram 37.5%) at 1g/kg seed (FP)	10	18.33	20.66	19.49	19.50	18.90	19.20	-	-	-
T_2- Seed treatment with *T. viride* at 10 g/kg seed + Application of *T. viride* at 5 kg/ha multiplied on decomposed with 100 kg FYM at the time of sowing (AP)		2.50	4.00	3.25	23.74	22.50	23.12	19.77	19.04	19.40

Table 2: Economic parameters of the efficacy of *T. viride* for management of Collar rot disesae in Chickpea

Technology option	Net return (Rs/ha)			% Increase in Net return			B:C Ratio	
	2021-22	2022-23	Mean	2021-22	2022-23	Mean	2021-22	2022-23
T_1- Seed treatment with vitavex (Carboxin 37.5% + Thiram 37.5%) at 1g/kg seed (FP)	70885	68170	69527	-	-	-	3.27	3.23
T_2- Seed treatment with *T. viride* at 10 g/kg seed + Application of *T. viride* at 5 kg/ha multiplied on decomposed with 100 kg FYM at the time of sowing (AP)	92560	91750	92155	30.57	34.58	32.54	3.93	3.75

The result (Table 2) indicated that the average net returns of T2 was Rs.92155 which was 32.54 per cent higher over T1 (Rs. 69527). The B:C ratio of T2 was 3.93 and 3.75 during 2021-22 and 2022-23 respectively.

LIVESTOCK ENTERPRISES

Technology Assessed: Assessment of supplementary feeding of goat kids for higher growth rates
Problem Identified : Poor growth rate of goat kids
Thematic area : Nutrition management
Source of technology : ICAR- CSWRI, Avikanagar and ICAR-NRC on goat Makhdoom

Goat husbandary provides glimpses of future hope for employment generation, nutritional security and prosperity of the millions of small and marginal farmers. Goats constitute 26.4 percent of the total livestock population of Rajasthan and the 19th livestock census puts the no. of goats in the Kota district at 1.37 lakhs. KVK, Kota observed poor growth rates of goat kids in Kota district. Therefore, an OFT was conducted to assess supplementary feeding of goat kids for higher growth rates during 2022 and 2023. Results indicated that feed + 1.5 % concentrate of body weight recorded maximum mean body weight (kg) 12.45 and 12.80 of 3 months goat kids and 19.60 and 23.25 of 6 months goat kids during 2022 and 2023 respectively. The percent increase in mean body weight was 2.81 and 18.62 of 3 months and 6 months goat kids over farmers practices during 2022 and 2023 respectively.

Table: Assessment of supplementation of supplementary feeding of goat kids for higher growth rates

Technology Option	Body weight (kg)								Body weight (g) gain/day	
	At 3 months				At 6 months					
	2022	2023	Mean	Per cent increase over FP	2022	2023	Mean	Per cent increase over FP	2022	2023
T_1= Farmer's practice (Feed + 0.5 % concentrate of body weight)	12.3	12.6	12.45	-	19.4	19.8	19.6	-	79.00	80.00
T_2= (Feed + 1.5 % concentrate of body weight)	12.5	13.1	12.80	2.81	22.9	23.6	23.25	18.62	115.0	116.66

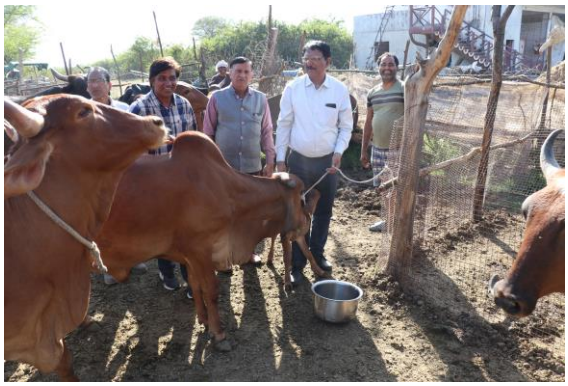
Technology Assessed: Assessment the efficacy of poly-herbal mixture supplementation on milk production and postpartum reproduction in Gir cows

Problem definition : Low milk yield in desi cow
Thematic area : Nutrition management
Source of technology : ICAR- NDRI, Karnal

Milk yield of desi cow is low due to poor feeding management. Poly-herbal mixture (25g of each Saunf, Ajwain, Methi, cardamom, Chandrasur mixed with 250 g Gur) are believed to assist in the initiation, augmuntation of milk production and improve udder health. Therefore, KVK, Kota conducted on farm trials to assess the efficacy of poly-herbal mixture on milk production and postparturm reproduction in Gir cows during 2022 and 2023. The results indicated that the average milk yield was obtained under T2 (9.5 lt/day) which was 14.37 per cent higher than farmers practices (8.3 lt/day). Its also observed that the timing of expulsion of placenta also lower 3.1 hrs and 3.0 hrs than farmers practices 6.3 hrs and 6.5 hrs during 2022 and 2023 respectively.

Table: Assessment the efficacy of poly-herbal mixture supplementation on milk production and postpartum reproduction in Gir cows

Technological options	No. of trials	Milk Yield (lt/day)				Expulsion of placenta (hrs)	
		2022	2023	Mean	% Increase in milk yield over FP	2022	2023
T_1 = Farmers practice (standard feeding practice of farmers)	05 (10 animals)	8.2	8.5	8.3	-	6.3	6.5
T_2= T_1 + Poly herbal mixture supplementation from day of calving day to 10 days of postpartum		9.3	9.8	9.5	14.37	3.1	3.0



II. FRONTLINE DEMONSTRATION

(A). Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2023 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	Mustard (NFSM)	ICM	Use of improved variety Giriraj (DRMR IJ-31) and POP	Trainings, Demon. Field day, Literature, Meetings, Farmer fair, FS interaction	4	50	20
2	Soybean (NFSM)	ICM	Improved variety JS 20-34 and POP		5	60	30
3	Chickpea (NFSM)	ICM	Improved variety GNG-2171 and POP		5	50	20
3	Blackgram (NFSM)	ICM	Improved variety Mukundra urd 2 and POP		4	75	30
4	Coriander (TSP)	ICM	Improved variety RKD-18 and POP		1	10	5.0

(B) Details of FLDs implemented during 2023 (Information is to be furnished in the following three tables for each category i.e., cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

S. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration		
					Proposed	Actual	SC/ST	Others	Total
FLD on oilseeds									
1	Mustard (NFSM)	ICM	1. Improved seed (Radhika and DRMR 1165-40) 2. Seed treatment with metalaxyl 6 g/ kg seed followed by Imidachlopride 8 ml /kg seed 3. Sulphur 90% at 25 kg /ha 4. Soil application of *Trichoderma* at 2.5 kg /ha pre-mix with FYM 5. Diamethoate 30 % EC at 1.25 l/ha	Rabi 2022-23	20	20	19	31	50
2	Soybean (NFSM)	ICM	1. Improved variety JS 20-98 2. Seed treatment with Carbendazim 50 WP at 2 g/kg seed 3. Soil treatment with Trichoderma viride @ 2.5 kg/ha (mixed with 40-50 kg FYM) 4. Sowing of crop in row of 30 cm apart	Kharif, 2023	30	30	48	27	75
3	Mustard (NFSM)	ICM	1. Improved seed (Radhika and DRMR 1165-40)	Rabi 2023-24	20	20	75	25	100

			2. Seed treatment with metalaxyl 6 g/ kg seed followed by Imidachlopride 8 ml /kg seed 3. Sulphur 90% at 50 kg /ha 4. Soil application of *Trichoderma* at 2.5 kg /ha pre-mix with FYM 5. Diamethoate 30 % EC at 1.25 l/ha						
4.	Mustard (TSP)	ICM	Improved variety DRMR 1165-40	Rabi 2023-24	12.5	12.5	23	0	23
FLD on pulses									
1	Chickpea (NFSM)	ICM	1. Improved seed (GNG 2171) at 75 kg /ha 2. Seed treatment with Carbendazim 2 g/ kg seed followed by NPK consortia at 8 ml/kg seed 3. Profenophos 50% EC at 1 l/ha 4. Soil application of Trichoderma at 2.5 kg /ha pre-mix with FYM	Rabi 2022-23	20	20	45	30	75
2	Blackgram (NFSM)	ICM	1. Improved varieties Kota urd 3 and Kota urd 4 2. Seed treatment with Carbendazim 50 wp @ 2 g/kg seed 3. Soil treatment with Trichoderma viride @ 2.5 kg/ha (mixed with 40-50 kg FYM) 4. Sowing at 30 cm. rows 5. Zink Sulphate (33%) 15 kg/ha 6. Recommended N:P (20:40) kg/ha 7. Weed management by application of Imezathapyre 10 S.L. at 550 ml/ha 8. Profenophos 50 EC 1 L/ha Diamethoate 30 EC 1 L/ha	Kharif, 2023	30	30	21	29	50
3	Chickpea (TSP)	ICM	1. Improved seed (GNG 2144 at 75 kg /ha 2. Seed treatment with Carbendazim 2 g/ kg seed 3. Soil application of *Trichoderma* at 2.5 kg /ha pre-mix with FYM	Rabi 2023-24	0	18.4	46	0	46
FLD on other crop									
1.	Coriander (TSP)	ICM	Improved variety RKD-18, Sulphur, Zinc sulphate,	Rabi 2022-23	5.0	5.0	10	0	10
2.	Coriander (MIDH)	ICM	Improved variety RKD-18, Hexaconazole, Trichoderma, Carbendazim	Rabi 2023-24	2.5	2.5	0	05	05
3.	Coriander (TSP)	ICM	Improved variety RKD-18	Rabi 2023-24	12.5	12.5	23	0	23

4.	Wheat (TSP)	ICM	Improved variety HPBW 01	Rabi 2023-24	4.8	4.8	12	0	12

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					
Mustard (NFSM)	Rabi 2022-23	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	10-25.10.2022	20-25.03.2023	115	
Soybean (NFSM)	Kharif, 2023	Rainfed	Clay loam	L	L	H	Chickpea, mustard/ Wheat	1-7.07.2023	5-25.10.2023	771	
Mustard (NFSM)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	10-25.10.2022	20-25.03.2023	115	
Chickpea (NFSM)	Rabi 2022-23	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	20.10.2022 to 10.11.2022	15.03.2023 to 30.03.2023	115	
Blackgram (NFSM)	Kharif, 2023	Rainfed	Clay loam	L	L	H	Chickpea, mustard/ Wheat	1-10.07.2023	25.09.2023 to 05.10.2023	771	
Chickpea (TSP)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	20.10.2022 to 10.11.2022	15.03.2023 to 30.03.2023	115	
Mustard	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	15-25.10.2023	awaited		
Coriander (MIDH)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	25.10.23 to 05.11.23	awaited		
Mustard (TSP)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	15-25.10.2023	awaited		
Coriander (TSP)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	25.10.23 to 05.11.23	awaited		
Wheat (TSP)	Rabi 2023-24	Irrigated	Clay loam	L	L	H	Soybean, Blackgram	15-25.11.2023	awaited		

Technical Feedback on the demonstrated technologies

Crop	Feed Back
Chickpea	1. Quality seeds to be made available to the farmers before sowing time 2. Fresh Bio-fertilizers to be available at sowing time 3. Farmers to be motivated for use of ferti-seed drill & sowing of crops with appropriate spacing 4. Research on post emergence broad spectrum herbicide in chickpea will be done.
Mustard	1. Quality seeds of improved varieties to be made available to the farmers before sowing time. 2. Sulphur & Zn fertilizer along with recommended NP to be encouraged. Excess use of urea to be discouraged. 3. Farmers need to convey about importance of sowing the crop at right spacing (30 cm

	rows) using optimum seed rate
Blackgram	1. Quality seeds to be made available to the farmers before sowing 2. Fresh bio-fertilizers should be available at sowing time 3. New variety resistant to water logging & YVM should be evolved 4. Research on post emergence broad spectrum herbicide in blackgram should be strengthen
Soybean	1. Availability of quality seeds of newly recommended varieties should be ensured. 2. Fresh bio-fertilizers should be available at sowing time 3. High yielding short duration variety resistant to water logging should be evolved. 4. Farmers should be aware about use of recommended doses of fertilizers. 5. Farmers need to convey about importance of sowing the crop at right spacing (30-45 cm rows) and need to be sown on BBF.

Farmers' reactions on specific technologies

Crop	Feed Back
Chickpea	1. GNG-2171 and GNG 2144 varieties is found better yielding, having good branching, more number of pods per plant, moderately resistant to wilt disease. 2. Seed treatment with carbendazim found effective for disease management. 3. Soil treatment with *Trichoderma viride* might be effective for diseases.
Mustard	1. Variety Radhika and DRMR 1165-40 were appreciated due to higher yield, good branching and pod formation. 2. Seed treatment with metalaxyl is effective for white rust and imidacloprid check the initial attack of painted bug. 3. Sowing at 30-45 cm rows found beneficial for better light interception. 4. Sulphur & zinc fertilizers enhanced pod formation & yield
Urdbean	1. Kota urd 3 and Kota urd 4 varieties were accepted by the farmers for bold seed, good growth & branching, however, good yields could not be achieved due to high rainfall and crop submergence during crop growth. 2. Seed treatment with carbendazim found effective for disease management. 3. Weed management with application of Pendamethalin 30 EC at 0.1 kg a.i. /ha found effective for most of the weeds 4. Spray of Imidacloprid 17.8 SL 250 ml/ha found effective for sucking pest management and increased pod formation.
Soybean	1. Variety JS 20-98 was accepted by the farmers for more number of pods per plant 2. Seed treatment with carbondazim found effective for disease management. 3. Soil application of trichoderma found effctive to manage soil and seed born diseases at germination stage 4. Fertilizer application @ 20-40 kg NP/ha found yield remunerative

Extension and Training activities under CFLD-Chickpea Rabi 2022-23

S.No.	Extension Activities Organized	Date	No. of participants	Remarks
1	Farmers and field selection	21.09.22	28	
2	Farmers and field selection	27.09.23	19	
3	Field visit for monitoring	04.01.23	11	
4	Field visit for monitoring	16.01.23	14	
5	Field visit for monitoring	19.01.23	8	
6	Field day on chickpea	23.01.23	64	
7	Field visit for monitoring	27.01.23	14	
8	On-campus -Nutrients management in rabi crops	21-22.10.2022	21	
9	Fieldday on Chickpea	27.02.2023	385	

Extension and Training activities under CFLD-Mustard Rabi 2022-23

S.No.	Activities	Date	No. of participants	Remarks
1.	Farmers and field selection	21.09.22	25	
2.	Field visit for monitoring	23.12.2022	08	
3.	Field visit for monitoring	04.01.2023	16	
4.	Field visit for monitoring	16.01.23	14	
5.	Field visit for monitoring	19.01.23	8	
6.	Field day on Mustard	13.2.2023	115	
7.	On-campus -Production techniques of mustard crop	29-30.09.2022	25	

Extension and Training activities under CFLD-Blackgram Kharif, 2023

S.No	Activity	Date	No. of participants	Remarks
1.	Field day on CFLD Blackgram under NFSM	12.09.2023	53	
2.	On campus- Nutrients and weeds mangement in kharif crops	29-.30.06.2023	24	
3.	On campus- Production techniques of blackgram	03-04.07.2023	31	
4.	On campus- Nutrients mangement in kharif crops	11-12.07.2023	30	

Extension and Training activities under CFLD-Soybean Kharif, 2023

S. No	Activity	Date	No. of participants	Remarks
1.	Field day on CFLD Soybean under NFSM	17.09.2023	49	
2.	On-campus -Production techniques of soybean	27-28.06.2023	26	
3.	On campus- Nutrients and weeds mangemnt in kharif crops	29-.30.06.2023	24	
4.	On campus- Nutrients mangement in kharif crops	11-12.07.2023	30	

Extension and Training activities under CFLD-Mustard Rabi 2023-24

S. No	Activities	Date	No. of participants	Remarks
1.	On-campus: Cultivation practices of mustard under natural farming	9.10.2023	24	
2.	Field visit for monitoring	05.01.24	14	
3.	Field visit for monitoring	18.01.24	10	
4.	Field visit for monitoring	19.01.24	26	
5.	Field visit for monitoring	10.02.24	15	
6.	Fieldday on Mustard	15.02.24	104	

Performance of Frontline demonstrations

Cluster Frontline demonstrations on oilseed crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Ave.		
1	2	3	4	5	6	7	8	9	10	11
Mustard	ICM	Variety DRMR 1165-40 & POP	DRMR-1165-40	25	10	25.5	16	19.21	16.74	14.76
		Variety DRMR 2017-15 & POP	DRMR-2017-15	25	10	25.5	16	19.13	16.92	13.06

Soybean	ICM	Variety JS 20-98 & POP	JS 20-98	75	30	21.5	11.5	16.4	14.17	15.74
Mustard	ICM	Variety DRMR 2017-15 & POP	DRMR 2017-15	50	20	Result awaited				
Mustard	ICM	Variety DRMR 1165-40 & POP	DRMR 1165-40	50	20	Result awaited				
Mustard (TSP)	ICM	Variety DRMR 1165-40	DRMR 1165-40	23	12.5	Result awaited				

Economics of demonstration (Rs. /ha)				Economics of check (Rs. /ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
12	13	14	15	16	17	18	19
23960	104694	80734	4.37	21880	91233	69353	4.17
23120	104258	81138	4.51	21140	92214	71074	4.36
35200	75506	40306	2.15	36180	65938	29758	1.82

Cluster Frontline demonstrations on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Ave.		
1	2	3	4	5	6	7	8	9	10	11
Chickpea	ICM	Variety GNG 2171 & POP	GNG 2171	50	20.0	26.5	17.5	22.51	19.10	17.85
		Variety GNG 2144 & POP	GNG 2144	25	10.0	26.2	18.5	22.67	18.66	21.49
Blackgram	ICM	Variety Kota urd 3 & POP	Kota urd 3	33	26.4	7.25	4.95	6.06	4.52	34.07
		Variety Kota urd 4 & POP	Kota urd 4	17	13.6	6.25	4.25	5.3	3.85	37.66

Economics of demonstration (Rs. /ha)				Economics of check (Rs. /ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
12	13	14	15	16	17	18	19
31370	118170	86800	3.77	29350	99764	70414	3.40
29380	120944	91564	4.12	28240	99551	71311	3.53
28200	56510	28310	2.00	26480	42064	15584	1.59
27690	55065	27375	1.99	26190	42064	15874	1.61

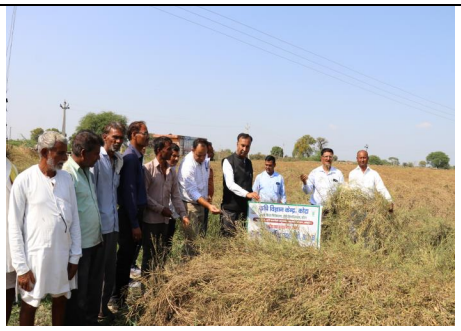
Frontline demonstrations on other crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Ave.		
1	2	3	4	5	6	7	8	9	10	11
Coriander (TSP)	ICM	Improved variety RKD 18	RKD 18	10	5.0	21.87	14.62	16.26	14.80	9.86
Coriander (MIDH)	ICM	Improved variety RKD 18	RKD 18	10	5.0	Result awaited				

Coriander (TSP)	ICM	Improved variety RKD 18	RKD 18	23	12.5	Result awaited
Coriander (MIDH)	ICM	Improved variety RKD 18	RKD 18	05	2.5	Result awaited
Wheat (TSP)	ICM	Improved variety HPBW 01	HPBW 01	12	4.8	Result awaited

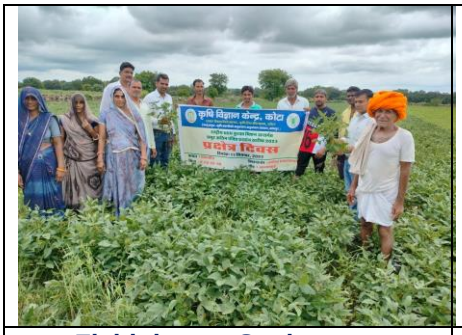
Economics of demonstration (Rs. /ha)				Economics of check (Rs. /ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
12	13	14	15	16	17	18	19
28500	155210	126710	5.54	27500	134300	106800	4.88

CFLD on Chickpea



CFLD on Mustard

CFLD on Blackgram



Field day on Soybean (15.09.23 at Kaliyakui)

Field day on Mustard (13.02.23 at Balapura)

Field day on Blackgram (12.09.23 at Bagtari)

Demonstration on nutri garden

Category of crop	Technology demonstrated	No. of farmers	No. of units	Economics of demonstrations			BCR (R/C)
				(A) Gross cost	(B) Gross return	Net return	
Nutrigarden (10x10 m^2)	Vegetable kit	50	50	700	2200	1500	3.15

Nutrigardern Demonstration

Nutrigardern Demonstration Unit at KVK Kota

Training Programme

Farmers' Training including sponsored training programmes (on campus)

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	2	15	39	54	0	0	0	15	39	54
Integrated Crop Management	3	23	57	80	0	0	0	23	57	80
Natural Farming	3	48	104	152	7	0	7	55	104	159
Total	**8**	**86**	**200**	**286**	**7**	**0**	**7**	**93**	**200**	**293**
II Horticulture										
a) Vegetable Crops										
Off season vegetable	1	2	26	28	0	0	0	2	26	28
Total (a)	**1**	**2**	**26**	**28**	**0**	**0**	**0**	**2**	**26**	**28**
b) Fruits										
Layout and Management of Orchards	1	27	4	31	13	6	19	40	10	50
Cultivation of Fruit										
Total (b)	**1**	**27**	**4**	**31**	**13**	**6**	**19**	**40**	**10**	**50**
c) Ornamental Plants										
Nursey Management	1	16	10	26	5	0	5	21	10	31
Total (c)	**1**	**16**	**10**	**26**	**5**	**0**	**5**	**21**	**10**	**31**
d) Plantation crops										
Total (d)										
e) Tuber crops										
f) Spices										
Production and Management technology										
Total (f)										
g) Medicinal and Aromatic Plants										
Production and management technology										
Total (g)										
GT (a-g)	**3**	**45**	**40**	**85**	**18**	**6**	**24**	**63**	**46**	**109**
III Soil Health and Fertility Management										
Total										
IV Livestock Production and Management										
Dairy Management	1	25	0	25	15	0	15	40	0	40
Poultry Management										
Feed and Fodder Management	1	60	35	95	5	0	5	65	35	100
Goat Rearing										
Total	**2**	**85**	**35**	**120**	**20**	**0**	**20**	**105**	**35**	**140**
V Home Science/Women empowerment										
Value addition	1	8	5	13	5	10	15	13	15	28
Total	**1**	**8**	**5**	**13**	**5**	**10**	**15**	**13**	**15**	**28**
VI Agril. Engineering										
Others (Energy Efficiency and Energy Conservation)	1	49	14	63	40	21	61	89	35	124
Total	**1**	**49**	**14**	**63**	**40**	**21**	**61**	**89**	**35**	**124**
VII Plant Protection										
Integrated Pest Management	1	17	7	24	0	0	0	17	7	24
Integrated Disease Management	2	8	40	48	0	0	0	8	40	48
Bio-control of pests and diseases	1	17	8	25	0	0	0	17	8	25
Others (Amrit Internship Programme-3 Months)	1	43	7	50	5	1	6	48	8	56
Total	**5**	**85**	**62**	**147**	**5**	**1**	**6**	**90**	**63**	**153**
VIII Capacity Building and Group Dynamics										
Others (Agriculture Marketing)	1	62	33	95	4	4	8	66	37	103
Total	**1**	**62**	**33**	**95**	**4**	**4**	**8**	**66**	**37**	**103**
GRAND TOTAL	**21**	**420**	**389**	**809**	**99**	**42**	**141**	**519**	**431**	**950**

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
I Crop Production										
Weed Management										
Resource Conservation Technologies	1	8	10	18	0	0	0	8	10	18
Cropping Systems										
Integrated Farming										
Integrated Crop Management	3	20	42	62	0	0	0	20	42	62
Soil and water conservation										
Integrated nutrient management	2	20	23	43	2	0	2	22	23	45
Production of Organic Input										
Total	**6**	**48**	**75**	**123**	**2**	**0**	**2**	**50**	**75**	**125**
II Horticulture										
a) Vegetable Crops										
Off season vegetable	1	15	7	22	0	4	4	15	11	26
Total (a)	**1**	**15**	**7**	**22**	**0**	**4**	**4**	**15**	**11**	**26**
b) Fruits										
Cultivation of fruits	1	26	8	34	0	0	0	26	8	34
Management of young plants/orchards										
Total (b)	**1**	**26**	**8**	**34**	**0**	**0**	**0**	**26**	**8**	**34**
c) Ornamental Plants										
Total (c)										
d) Plantation crops										
Total (d)										
e) Tuber crops										
Total (e)										
f) Spices										
Total (f)										
g) Medicinal and Aromatic Plants										
Total (g)										
GT (a-g)	**2**	**41**	**15**	**56**	**0**	**4**	**4**	**41**	**19**	**60**
III Soil Health and Fertility Management										
Total										
IV Livestock Production and Management										
Dairy Management	1	30	15	45	0	0	0	30	15	45
Feed & fodder technology	1	21	15	36	0	0	0	21	15	36
Production of quality animal products	1	0	0	0	25	15	40	25	15	40
Total	**3**	**51**	**30**	**81**	**25**	**15**	**40**	**76**	**45**	**121**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	10	10	0	50	50	0	60	60
Value addition										
Total	**2**	**0**	**10**	**10**	**0**	**50**	**50**	**0**	**60**	**60**
VII Plant Protection										
Integrated Pest Management	4	68	42	110	2	0	2	70	42	112
Integrated Disease Management	1	0	18	18	0	8	8	0	26	26
Bio-control of pests and diseases	1	10	10	20	0	4	4	10	14	24
Total	**6**	**78**	**70**	**148**	**2**	**12**	**14**	**80**	**82**	**162**
VIII Fisheries										
IX Production of Inputs at site										
Total										
X Capacity Building and Group Dynamics										
Total										
XI Agro-forestry										
Total										
GRAND TOTAL	**19**	**218**	**200**	**418**	**29**	**81**	**110**	**247**	**281**	**528**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

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	2	15	39	54	0	0	0	15	39	54
Resource Conservation Technologies	1	8	10	18	0	0	0	8	10	18
Integrated Crop Management	6	43	99	142	0	0	0	43	99	142
Integrated nutrient management	2	20	23	43	2	0	2	22	23	45
Natural Farming	3	48	104	152	7	0	7	55	104	159
Total	**14**	**134**	**275**	**409**	**9**	**0**	**9**	**143**	**275**	**418**
II Horticulture										
a) Vegetable Crops	2	17	33	50	0	4	4	17	37	54
Off-season vegetables										
Total (a)	**2**	**17**	**33**	**50**	**0**	**4**	**4**	**17**	**37**	**54**
b) Fruits										
Layout and Management of Orchards	1	27	4	31	13	6	19	40	10	50
Cultivation of Fruit	1	26	8	34	0	0	0	26	8	34
Total (b)	**2**	**53**	**12**	**65**	**13**	**6**	**19**	**66**	**18**	**84**
c) Ornamental Plants										
Nursery Management	1	16	10	26	5	0	5	21	10	31
Total (c)	**1**	**16**	**10**	**26**	**5**	**0**	**5**	**21**	**10**	**31**
d) Plantation crops										
e) Tuber crops										
f) Spices										
Total (f)										
g) Medicinal and Aromatic Plants										
Production and management technology										
Total (g)										
GT (a-g)	**5**	**86**	**55**	**141**	**18**	**10**	**28**	**104**	**65**	**169**
III Soil Health and Fertility Management										
Total										
IV Livestock Production and Management										
Dairy Management	2	55	15	70	15	0	15	70	15	85
Feed & fodder technology	2	81	50	131	5	0	5	86	50	136
Production of quality animal products	1	0	0	0	25	15	40	25	15	40
Total	**5**	**136**	**65**	**201**	**45**	**15**	**60**	**181**	**80**	**261**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	10	10	0	50	50	0	60	60
Value addition	1	8	5	13	5	10	15	13	15	28
Total	**3**	**8**	**15**	**23**	**5**	**60**	**65**	**13**	**75**	**88**
VI Agril. Engineering										
Others (Energy Efficiency and Energy Conservation)	1	49	14	63	40	21	61	89	35	124
Total	**1**	**49**	**14**	**63**	**40**	**21**	**61**	**89**	**35**	**124**
VII Plant Protection										
Integrated Pest Management	5	85	49	134	2	0	2	87	49	136
Integrated Disease Management	3	8	58	66	0	8	8	8	66	74
Bio-control of pests and diseases	2	27	18	45	0	4	4	27	22	49
Others (Amrit Internship Programme- 3 Months)	1	43	7	50	5	1	6	48	8	56
Total	**11**	**163**	**132**	**295**	**7**	**13**	**20**	**170**	**145**	**315**
VIII Capacity Building and Group Dynamics										
Others (Agriculture Marketing)	1	62	33	95	4	4	8	66	37	103
Total	**1**	**62**	**33**	**95**	**4**	**4**	**8**	**66**	**37**	**103**
GRAND TOTAL	**40**	**638**	**589**	**1227**	**128**	**123**	**251**	**766**	**712**	**1478**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mushroom Production	1	18	6	24	4	0	4	22	6	28
Value addition	2	15	2	17	42	7	49	57	9	66
Dairying	1	25	10	35	2	3	5	27	13	40
Goat rearing	1	29	6	35	0	0	0	29	6	35
RAWE/FET	4	8	33	41	5	9	14	13	42	55
TOTAL	**9**	**95**	**57**	**152**	**53**	**19**	**72**	**148**	**76**	**224**

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Mushroom Production	1	18	6	24	4	0	4	22	6	28
Value addition	2	15	2	17	42	7	49	57	9	66
Dairying	1	25	10	35	2	3	5	27	13	40
Goat rearing	1	29	6	35	0	0	0	29	6	35
RAWE/FET	4	8	33	41	5	9	14	13	42	55
TOTAL	**9**	**95**	**57**	**152**	**53**	**19**	**72**	**148**	**76**	**224**

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Nutrient management	1	39	15	54	0	0	0	39	15	54
TOTAL	**1**	**39**	**15**	**54**	**0**	**0**	**0**	**39**	**15**	**54**

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Nutrient management	1	39	15	54	0	0	0	39	15	54
TOTAL	**1**	**39**	**15**	**54**	**0**	**0**	**0**	**39**	**15**	**54**

Sponsored training programmes

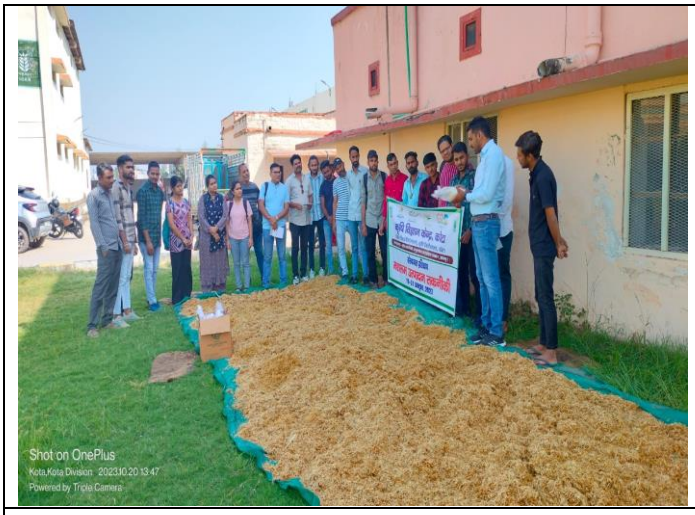
Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Processing and value addition	1	8	5	13	5	10	15	13	15	28
Energy Efficiency and Energy Conservation)	1	49	14	63	40	21	61	89	35	124
Livestock production and management	1	25	0	25	15	0	15	40	0	40
Agriculture Marketing)	1	62	33	95	4	4	8	66	37	103
Amrit Internship Programme- 3 Months)	1	43	7	50	5	1	6	48	8	56
GRAND TOTAL	**5**	**187**	**59**	**246**	**69**	**36**	**105**	**256**	**95**	**351**

Name of sponsoring agencies involved: RRECL, Jaipur, CCSNIAM, Jaipur, ICRO, New Delhi, ATMA, Shivpuri (MP), NIFTEM

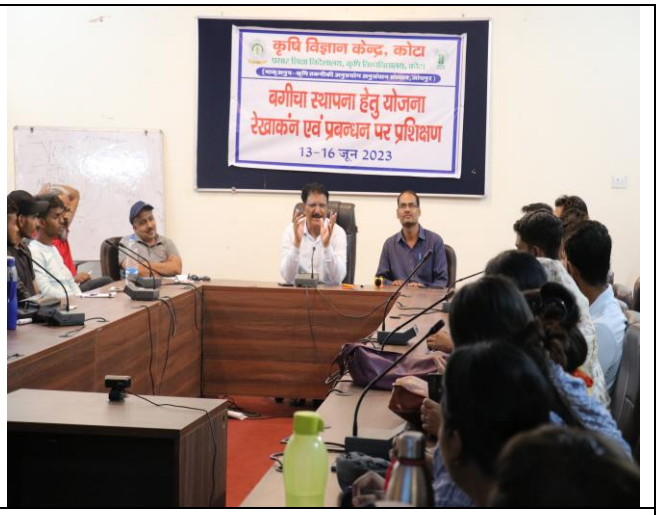
Details of vocational training programmes carried out by KVKs

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Value addition	1	8	5	13	5	10	15	13	15	28
Amrit Internship Programme- 3 Months)	1	43	7	50	5	1	6	48	8	56
Total	**2**	**51**	**12**	**63**	**10**	**11**	**21**	**61**	**23**	**84**

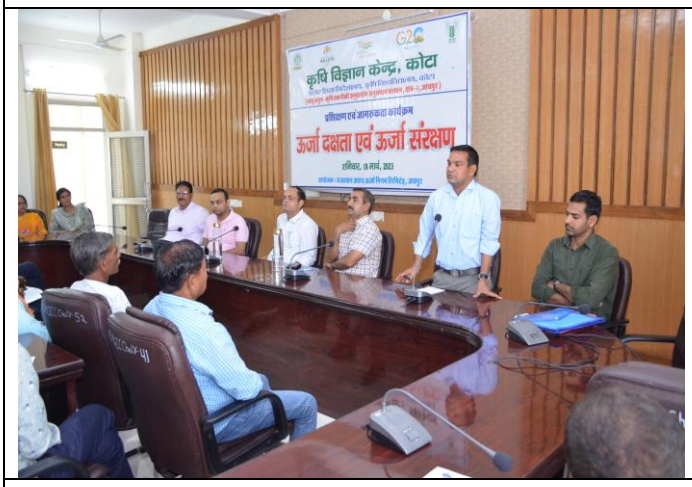
Training Programmes



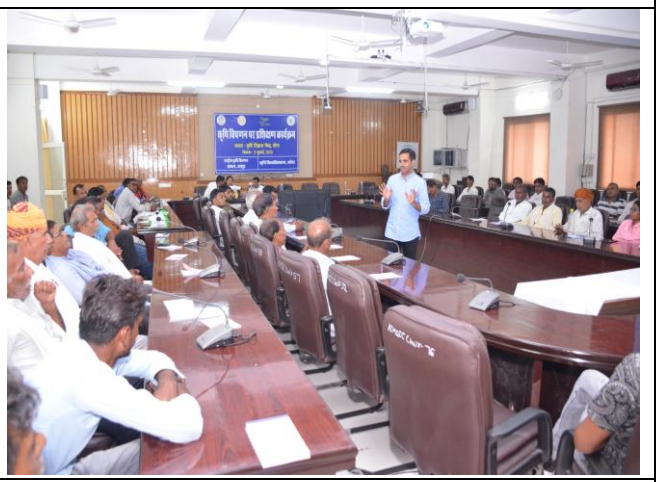
On Campus training on Mushroom Production technology



On Campus training on Orchard Establishment

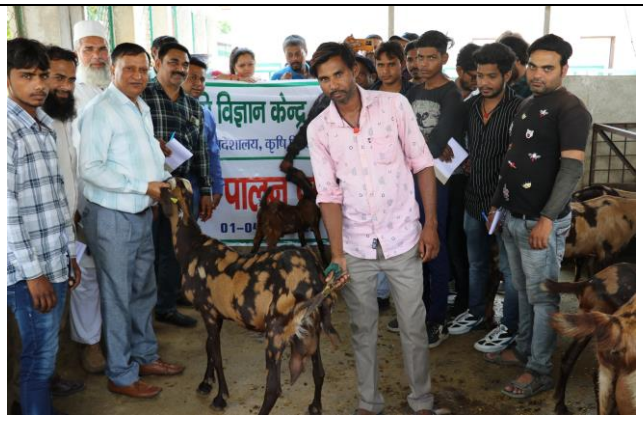


Training on Energy Efficiency and Energy Conservation



Training on Agriculture Marketing

Natural Farming Training



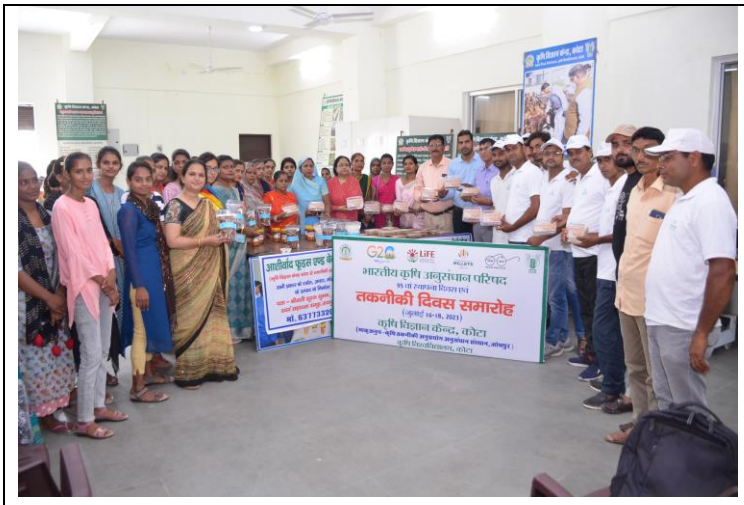
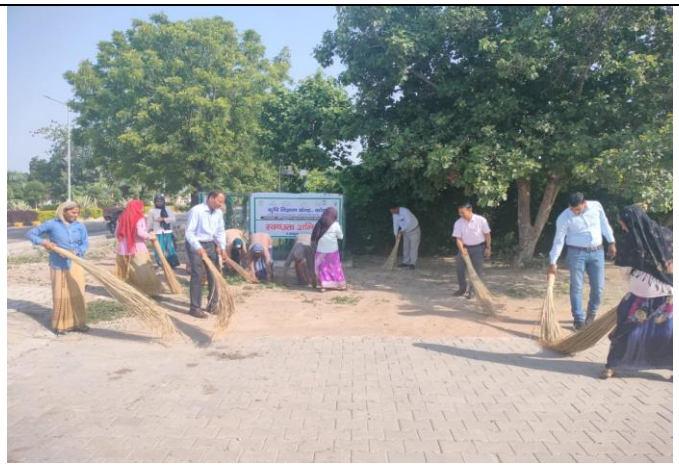
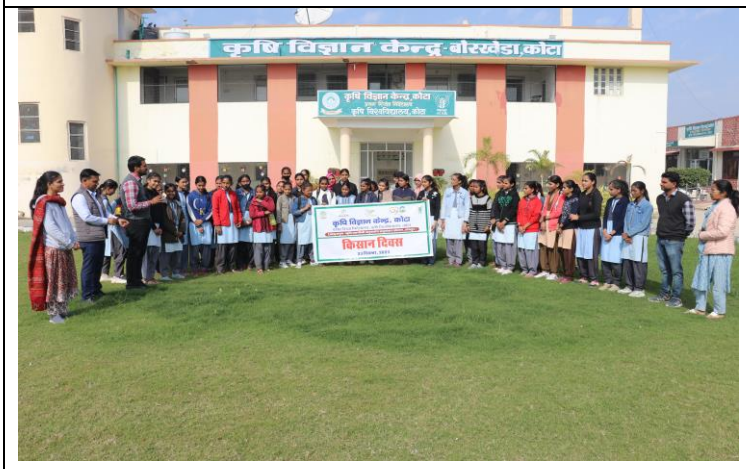
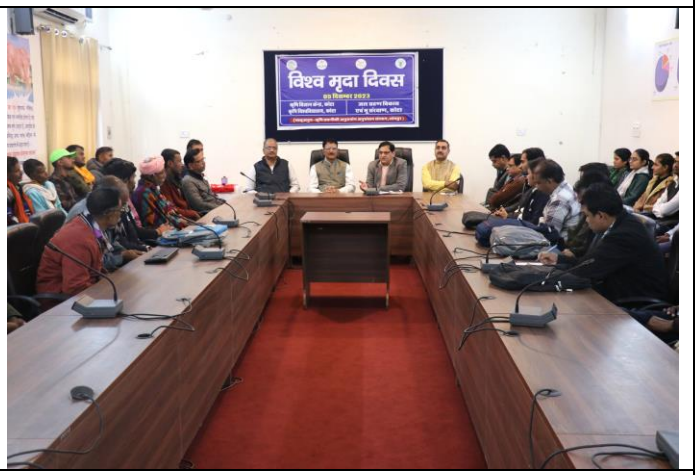
On campus training on Goat Rearing

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Farmers Seminar/Workshop				
Farmers seminar on Seed Spices (27.02.2023)	01	385	10	395
One Day Workshop of FPO/FPC of Kota Division	01	94	10	104
Sub total	**02**	**479**	**20**	**499**
Field days				
Mustard (DRMR 2017-15) (13.02.23)	01	105	3	108
Coriander (RKD 18) (20.02.23)	01	30	3	33
Blackgram (Kota Urd 3) (12.09.23)	01	63	8	71
Soybean (JS 20-98) (17.9.23)	01	49	4	53
Sub Total	**04**	**247**	**18**	**265**
Exhibitions				
Krishi Mahotsav - Pradarshani evm Prshikshan (24-25.02.23)	01	20000	1000	21000
Farmers Seminar on Seed Spices Crops	01	385	10	395
Exhibition of processed millets food products at University (18.03.23)	01	140	8	148
State Level Farmers Fair, Jaipur	01	15000	500	15500
Sub Total	**04**	**35525**	**1518**	**37043**
Celebration of important days				
International Women Day (08.03.23)	01	35	3	38
World Envrionment Day (05.06.23)	01	40	3	43
Celebration of 95th ICAR foundation and Technology Day (16-18.07.23)	03	284	10	294
18th Parthenium Awareness Week (16-22.08.23)	03	109	10	119
Special Swachhta Campaign 3.0 (02-31 Oct., 2023)	01	32	5	37
World Soil Day (05.12.23)	01	75	8	83
National Farmer Day (Kisan Diwas) 23.12.23	01	45	5	50
Sub Total	**11**	**620**	**44**	**664**
Extension activities				
Awareness programme on natural Farming (20.01.2023)	01	30	5	35
Awareness programme on natural Farming (13.02.23)	01	105	3	108
PM Samman Nidhi Awareness Programme (27.02.23)	01	385	10	395
Live Telecasted of Global Millets Conference (18.03.23)	01	140	8	148
Live telecasted of 100th episode of Mann Ki Baat of Shri Narendra Modi (30.04.23)	01	72	5	77
Awareness Programme on Natural and Organic Farming under LiFE Mission (01.06.23)	01	59	3	62
Awareness Programme on LiFE Mission	01	50	1	51
Orientation Programme for Amrit Interns	01	65	5	70
Live Telecasted of PM Kisan Samman Nidhi Programme (27.07.23)	01	112	5	117
Millet Recipe Competition	01	55	2	57
Awareness Programme on Commodity Derivatives	01	72	2	74
Live telecasted of Hon'ble PM (VBSY) 09.12.23	01	160	10	170
Millionaire Farmers Award ceremony 12.12.23	01	150	10	160
Participation in VBSY 2023 (16-29.12.23)	20	12579	500	13079

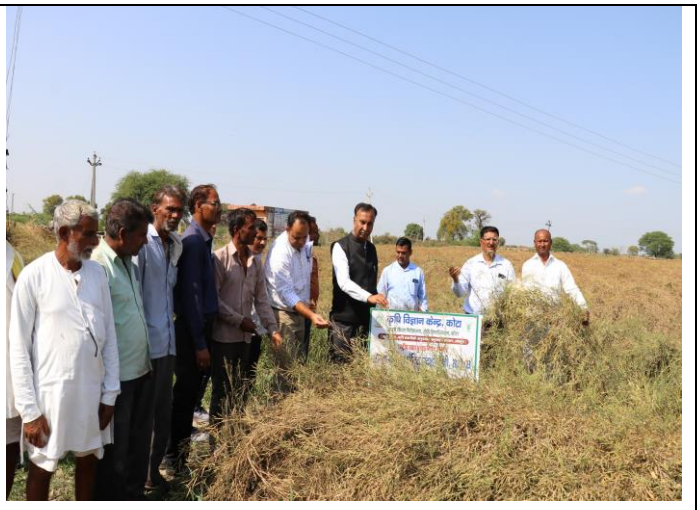
Sub Total	**33**	**14034**	**569**	**14603**
Other activities				
Advisory Services	27	38809	500	39309
Diagnostic visits	10	170	20	190
Group discussions	4	172	3	175
Kisan Ghosthi	3	180	10	190
Film Show	10	350	20	370
Scientists' visit to farmers field	23	292	10	392
Method Demonstrations	12	250	8	258
Exposure visits	27	1562	50	1612
Farmers visit to KVK		3766	450	4216
Farmers Scientist Interaction	1	35	5	40
Lecture delivered	40	2000	100	2100
Sub Total	**157**	**47586**	**1164**	**48840**
Grand Total	**211**	**98491**	**3345**	**101836**

Celebration of important days

<table>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>95th ICAR Foundation Day Technology Day Celebration</td><td>World Environment Day 05.06.23</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Parthenium Awareness Week (16-22.08.2023)</td><td>Swachhata Abhiyan (02-31.10.2023)</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Kisan Diwas on 23.12.2023</td><td>World Soil Day on 05.12.2023</td></tr>
</table>

Extension Activities

Farmers Seminar on Seed Spices at Kanwas on 27.02.23



Field visit of HVC, AU, Kota at Kanwas

Orientation Programme of Amrit Interns on 28.06.2023

Agriculture Technology Exhibition of KVK Kota at Krishi Mahotsav - Pradarshani evm Prshikshan (24-25.02.23), Kota

Workshop of FPO/FPC of Kota Division on 26.08.23

Scientist Visit to Farmers Field

Details of other extension programmes

Particulars	Number
Electronic Media (CD/DVD)	2
Extension Literature	5
News paper coverage	15
Popular articles	8
Radio Talks	8
TV Talks	2
Total	

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Category	Quantity of seed (q)	Value (Rs in lakh)	Number of farmers
Cereals	Wheat	Raj 4037	F/S	259.5	9.86	
	Wheat	Raj 4037	C/S	579.5	19.70	
	Wheat	Raj. 4079	C/S	19.0	0.64	
	Wheat	Raj. 4238	F/S	19.0	0.72	
	Barley	RD 2794	TL	18.0	-	
	Paddy	Pusa Basmati 1509	TL	68.0	4.76	
	Paddy	Pusa Basmati 1718	CS	296.0	20.72	
	Paddy	Pusa Basmati 1692	CS	136.0	9.52	
Subtotal				**1395**	**65.92**	
Oilseeds	Mustard	DRMR 2017-15	F/S	55.5	6.66	
Subtotal				**55.5**	**6.66**	
Pulses	Chickpea	GNG 2144	C/S	6.0	0.41	
	Chickpea	GNG 2171	C/S-II	41.0	2.82	
	Chickpea	Kota Kabuli 3	TL	1.50	0.10	
	Lentil	Kota masoor 3	TL	2.0	0.18	
	Greengram	MH 1142	FS	30.0	4.50	
	Greengram	MH 1142	CS	21.0	2.52	
	Blackgram	Kota urd 3	FS	13.5	2.0	
	Blackgram	Kota urd 4	FS	7.0	1.0	
Subtotal				**122.0**	**13.53**	
Spices	Coriander	RKD 18	TL	37.0	4.81	
	Garlic	G 282	TL	48.50	6.30	
Subtotal				**85.5**	**11.11**	
Grand Total				**1658.0**	**97.22**	
Pulse seed hub	Chickpea	GNG 2144	C/S	6.0	0.41	
	Chickpea	GNG 2171	C/S-II	41.0	2.82	
	Chickpea	Kota Kabuli 3	TL	1.50	0.10	
	Chickpea	GNG-2144	CS-I	172.5	11.90	
	Lentil	Kota masoor 3	TL	2.0	0.18	
	Greengram	MH 1142	FS	30.0	4.50	
	Greengram	MH 1142	CS	21.0	2.52	
	Blackgram	Kota urd 3	FS	13.5	2.0	
	Blackgram	Kota urd 4	FS	7.0	1.0	
Total				**294.5**	**25.43**	
Oilseed hub	Mustard	DRMR 2017-15	F/S	55.5	6.66	
		DRMR 2017-15	FS-I	202.5	24.30	
Total				**258.0**	**30.96**	
Grand Total				**2210.5**	**153.61**	

Production of planting materials by the KVKs

Crop	Name of the crop	Number	Value (Rs.)	Number of farmers
Fruit plants	Papaya, Guava, Karonda, Lime etc.	12500	260000	1180
Ornamental plants	Crotens, moneyplants, Duranta, Iresin, Erenthum etc.	6800	75000	640
	Total	**19300**	**335000**	**1820**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers (Vermi compost unit)	Vermicompost	10000	150000	860
	Vermicompost	500	KVK, Farm	
	Vermiculture	120	15000	
Total			**165000**	
Bio-fungicide (Trichoderma unit)	*Trichoderma viride*	980	196000	50
	Trichoderma viride	50	KVK, Farm	
Total			**196000**	

Production of Food Products

Food Products	Name of the Food Product	Quantity Kg	Value (Rs.)	No. of Farmers
Mustard oil	Mustard oil	1000	250000	430
Amla/garlic/soya products	Juice			
	Murraba, Pickle, Candy, Chawanprash			
Drumstick product	Powder, Capsule, Pickle			
Total			**250000**	

Production of livestock materials

Particulars of Livestock	Name of the breed	Number(quantity)	Value (Rs.)	No. of Farmers
Dairy animals				
Gir cow	Gir milk	19244	992056	
	Ghee	67 L	100500	
	Buttermilk	700 L	14000	
	Gir cow/ male calf	18	536000	
Goatery	Sirohi Breeding Buck and Female Goat	58	675000	
Total			**2317556**	

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	100	100	03		100
Total	**100**	**100**	**03**		**100**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Kota	26.05.2023	43

IX.NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Research Paper	10
Book Chapter	02
Technical bulletins	02
Technical reports	02

Research papers :

S.No.	Title	Author (s)	Name of Journal/ Magazine/ book/ chapter	year & month	Vol No.& page	NAAS Score
1.	Efficacy of Trichoderma viride against Fusarium wilt of chickpea	**Roop Singh, R. K. Bairwa,** Irfan Khan, Kamla Mahajani and Sarita	Journal of Krishi Vigyan	2023	11 (2) : 97-100	4.55
2.	Productivity and	**R. K. Bairwa,**	Journal of Krishi	2023	11 (2):	4.55

	Profitability Analysis of Late Sown Wheat under Paddy-Wheat Cropping System	**Roop Singh,** Kamla Mahajani, Gunjan Sandhya and Sarita	Vigyan		293-297	
3.	Impact of Training on Knowledge Levels of Goat Rearing Farmer's in Bundi District of Rajasthan	G. S. Meena, Deepak Kumar, K Mahajani, **R. K. Bairwa, Roop Singh,** Anita	Journal of Krishi Vigyan	2023	11 (2): 192-195	4.55
4.	Influence of wheat based intercropping system by irrigation scheduling under limited water conditions.	Meena, H.P., Yadav, R.K., Singh, P., Manoj, Yadav, S.L., Dhakar, U. and **Bairwa, R.K.**	International Journal of Agriculture Sciences	2023	19 (1):309-314	
5.	Effect of irrigation scheduling and foliar fertilization on productivity, profitability and water use efficiency of soybean [Glycin max (L.) Merrill] under climatic variability of south eastern Rajasthan.	Meena, H.P., Yadav, R.K., Singh, P., Manoj, Yadav, S.L., **Bairwa, R.K.,** Dhakar, U., and Kumar, R.	International Journal of Plant Science	2023	18(1):63-68	
6.	Validation of QUEFT model for nutrient management of potato (Solanum tuberosum) in humid plains of Rajasthan.	Nagar, B.L., **Bairwa, R.K.,** Singh, J. and Yadav, D.L.2023.	Indian Journal of Agricultural Sciences	2023	93 (7):101-105	
7.	Effect of sowing windows and nitrogen levels on growth and fodder yield of ryegrass (Lolium multiflorum) under south eastern Rajasthan.	Meena, H.P., Manoj, Yadav, R.K., Yadav, S.L., **Bairwa, R.K.,** Bhaskar, M.L. and Singh, Pratap	International Journal of Agriculture Sciences	2023	19 (2):463-468	
8.	Nutrient management technologies of millets for increasing productivity and nutritional security.	Manoj, Meena, H.P, Yadav, R.K., Yadav, S.L. and **Bairwa, R.K.**	International Journal of Agriculture Sciences	2023	19 (2):708-717	
9.	Role of sulphur nutrition in oilseed crop production in India	Manoj, Yadav, R.K., Meena, H.P., Yadav, S.L. and **Bairwa, R.K**.	International Journal of Plant Science	2023	18(2):177-185	
10	Effect of feeding moringa leaves to Sirohi goat kids on their growth performance	Anita Kumari Meena, **Mahendra Singh** and Deepak Kumar	International Journal of Veterinary Science and Animal husbandry	2023	8(4):380-383	

Book Chapters:

(1) **Roop Singh** and Irfan Khan (2023) Bacterial Wilt of Ginger: An Overview. Pests and Disease Management of Horticultural Crops. Biotech Books, New Delhi: 245-253.

(2) Irfan Khan, **Roop Singh**, Abhishek Sharma and Wajid Hasan (2023) Serological and Molecular Detection Techniques of Viruses Infecting Onion and Garlic. Biotech Books, New Delhi: 64-72.

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

Activities conducted				
No. of Training programmes	**No. of Demonstrations**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**

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

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
Total				

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

S. No.	Name of scientist	Subject	Date		Place
			From	To	
1	Dr. Mahendra Singh	Online Meeting of KVK's of Rajasthan	15.05.23	15.05.23	ICAR-ATARI, Jodhpur
2	Dr. Mahendra Singh	Online Meeting of all KVKs Heads to discuss the format for zonal review meeting and APR 2022	30.05.23	30.05.23	ICAR-ATARI, Jodhpur
3	Dr. Rakesh Kumar Bairwa	Annual Workplan Workshop of Natural farming	01.02.23	02.02.23	ICAR-ATARI, Jodhpur
4	Dr. Roop Singh	21 days National Orientation Course on Teaching Learning Evaluation Technology Programme organized by ICAR-ATARI Zone -I, Ludhiana and RVSKVV, Gwalior	05.04.23	25.04.23	ICAR-ATARI Zone -I, Ludhiana and RVSKVV, Gwalior
5	Dr. Roop Singh	Consultative Workshop on "Technological Intervention & Innovation in the Honey/Beekeeping Sector"	12.04.23	12.04.23	DA&FW, New Delhi
6	Dr. Roop Singh	Orientation Training to the Master Trainers for 'Safe and Judicious use Glyphosate' by PCOs (Online)	16.06.23	16.06.23	NIPHM, Hyderabad
7.	Dr. Rakesh Kumar Bairwa	Annual Review Meeting of Scheduled Tribe Component (STC) and Pulses seed hub	11.10.23	12.10.23	ICAR-ATARI, Jodhpur

Award/Recognition of KVK Scientist

S.No.	Name of Scientist	Name of Award	Conferred by	Year of Award
1.	Dr. Mahendra Singh	Swami Keshwanand Distinguished Scientist Award	National Conference on Millet: Magical Crops for Nutritional Sustainability (MMCNS 2023), Jaggnath University, Jaipur	April, 2023
2.	Dr. Rakesh Kumar Bairwa	Best Extension Educationist	Agriculture University, Kota	Jan, 2023
3.	Smt. Gunjan Sanadhya	Appreciation Certificate	District Administration, Kota	Jan, 2023

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

a) 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

b) Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise

c) 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

XV. STATUS REVOLVING FUNDs

Year	Gross Income (lakh)	Expenditure (lakh)	Net Income (lakh)	Income deposited to the university (lakh)
2016-17	46.79	42.56	4.23	**0**
2017-18	53.36	39.83	13.53	**9.89**
2018-19	33.83	27.45	6.38	**10.0**
2019-20	41.19	40.1	1.09	**5.0**
2020-21	52.13	39.77	12.36	**5.0**
2021-22				
2022-23				
Total				

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st January of each year
January 2021 to December 2021				
January 2022 to December 2022				
January 2023 to December 2023				

Feed Need to be furnished

Feedback for policy makers:

- There is great need for regular capacity development of the KVK staffs.

Feedback for Researchers (Technology, Research and Future Research as per demand of farming community of particular district):

- Provide the complete package of practices of natural farming for major field crops, vegetables, fruit crops of the district.
- Development of climate resilent varietites of major field crops.

- Development of complete package of management practices for blight disease in tomato.
- Need to work on BBF palnting especially for soybean and blackgram in Kharif season.
- Need to work on disease resistant varietites of major field crops of the district.

Feedback for Development Department

- Active participation in SAC meeting of the KVK for proper planning of ensuing year for farming community.

Impact of most acceptable interventions/technologies

- KVK has pivotal role for conducting skill development training programmes on food processing and value addition, dairy farming, goat rearing, beekeeping and mushroom production for rural youth. As the impact of these training programmes more than 300 agripreneurs adopted the technology and started their own enterprise and earning 2.00-10.00 lakhs annually.
- Promotion of improved varieties of black gram (Pratap urd 1, Mukundra urd 2, Kota Urd 3) and chickpea (GNG 1958, GNG 1581, GNG 2171, GNG 2144) through CFLDs and seed production under pulses seed hub and make available to the farmers of the district.
- Promotion of improved varieties of mustrad (DRMR IJ 31, DRMR 1165-40) through CFLDs and seed production under oilseed (mustard) hub and make available to the farmers of the district.
- Application of *Trichoderma viride* as soil and seed treatmentat found lowest per cent disease incidence, the farmers like to adopt this technology.
- Use of waste decomposer at large scale for waste/crop residue management.

Major Demonstration units at KVK

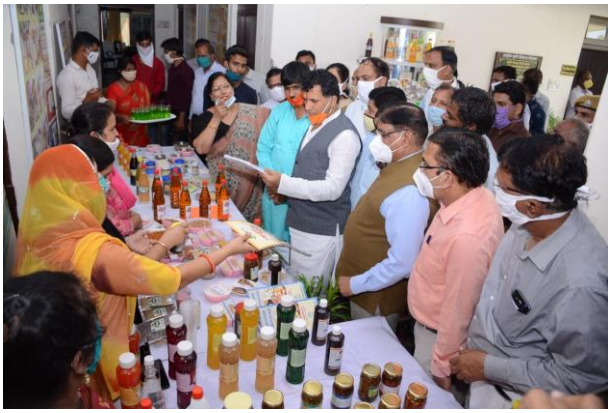
Demonstration units

KVK has 20 different units, out of which 11 are live demonstration units such as dairy, food processing & value addition, vermi-composting, nursery, mother orchard, bio- pesticide, beekeeping, mushroom production, azolla unit, mineral mixture etc. These live demonstration units are used for imparting skill-oriented trainings to rural and unemployed youths for profitable enterprises and horizontal expansion of these activities in the district. The details of live and other units are given as under:

S.N.	Name of demonstration unit	Brief description	Products	Remarks
1.	Seed production unit	44.00 ha area	100-ton quality seeds per year	Instructional farm
2.	Model unit of food processing & value addition	Capacity- 50q per year	Soya, aonla, fruits, vegetables, spices juices, syrups, pickles *etc.*	Model unit established under RKVY project costing ₹ 86.15 lakh
3.	Model dairy unit of Gir cow	16 Gir cow	Milk, *Go mutra* products	Model unit established under RKVY project costing ₹ 91.10 lakh
4.	Model unit of Sirohi goat	30+2 Sirohi breed goat	Meat and milk	Model Unit established under RKVY costing ₹ 40.00 lakh
5.	Model nursery Unit	Capacity 30000 fruit plants and 50000 vegetable seedings	Plants- papaya, guava, mango, citrus, karonda. Seedlings – tomato, chilly, cabbage, cauliflower and medicinal plants	Model unit established under NHM costing ₹ 38.00 lakh
6.	IPM unit	Capacity 20 q per year	*Trichoderma viride*	Model unit established under ICAR costing ₹ 20.00 lakh
7.	Plant health clinic	Diagnosis of Plant Insect, Pest and Disease	To diagnose and solve the problem of farmers	Model Unit established under ICAR costing around ₹ 10.00 lakh
8.	Vermicompost unit	Capacity: vermicompost 20 ton, vermi culture 500 kg	Vermicompost and vermiculture	Model Unit established under NHM and RF costing ₹ 5.00 lakh
9.	Bee keeping	20 colony	Honey	Developed under RF
10.	Solar energy water pump	5 HP	To lift water	Developed under NHM costing around ₹ 4.28 lakh
11.	Mother orchard	2.0 ha area	Mango, aonla, guava,	Developed under RF
12.	Azolla unit	100 sqm	Azolla	Developed under RF
13.	Mineral mixture unit for cattle	10 ton per year	Area specific mineral mixture	Developed under RKVY
14.	Agriculture implements	Farm machinery	Different implements	Developed under RF
15.	Automatic weather station	For recording weather data	To generate weather data	Developed under NHM costing around ₹ 4.25 lakh
16.	Roof water harvesting structure	Runoff and roof water harvested	For recycling	Developed under RF
17.	Soil & water testing lab	2500 soil samples	Soil sample & soil health cards	Developed under ICAR
18.	Crop museum unit	latest crop varieties	To demonstrate for farmers	Seasonal at instructional farm
19.	Insect Proof Net House	Off season vegetables	For skill development training	Developed under TSP and RF
20.	Mushroom unit	For skill development training	Oyster & pleurotus mushroom	Developed under RF

MODEL FOOD PROCESSING & VALUE ADDITION UNIT

Newly constructed food processing & milk product unit under RKVY



Hon'ble State Minister for Agriculture and Farmer Welfare of Government of India Sh. Kailash choudhary, and Dr. D.C. Joshi HVC, AU, Kota viewing processed products

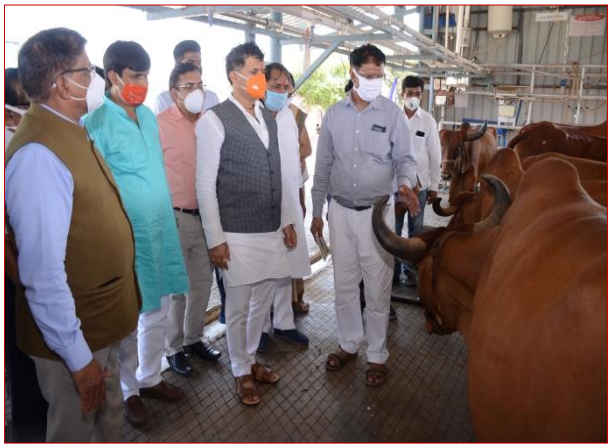
Sh. Mahadev Singh Khandela, Hon'ble Chairman and Other respected members of Rajasthan Farmers Commission visiting soya processing plant at KVK

Sh. Lalchand Kataria Hon'ble Agriculture Minister of Rajasthan and HVC AU, Kota Prof. D.C. Joshi visiting food processing unit

MODEL DAIRY UNIT

Model cattle shed for 20 Gir cows

Mineral mixture unit



Hon'ble State Minister for Agriculture and Farmer Welfare of Government of India Sh. Kailash choudhary, and Dr. D.C. Joshi HVC, AU, Kota visiting dairy unit

Dr. A.K. Vyas, HVC, AU, Kota visiting dairy unit

MODEL GOAT UNIT

Hon'ble Chairman and other members of Rajasthan Farmer's Commission visiting Model Dairy and Model Sirohi goat unit of KVK, Kota on 16 Nov., 2022

Hon'ble State Minister for Agriculture and Farmer Welfare, Government of India Sh. Kailash choudhary, Dr. D.C. Joshi, HVC, AU, Kota and QRT members visiting model goat unit on 02.10.2020

MODEL NURSERY UNIT

Sh. Bharat Singh Hada, Hon'ble MLA, Sangod, Kota and Prof. DC Joshi, HVC, AU, Kota visiting nursery

Dr. R. P. Singh, Ex Project Director, IIFSR, Modipuram and Dr. A. K. Vyas, HVC, Agriculture University, Kota visiting nursery

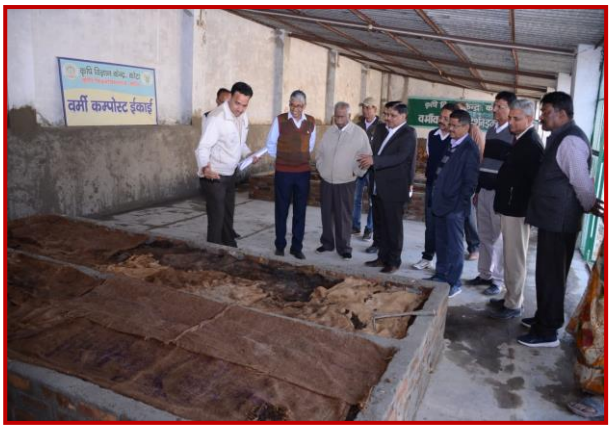
MODEL BIO-AGENT - TRICHODERMA UNIT

Trichoderma Unit

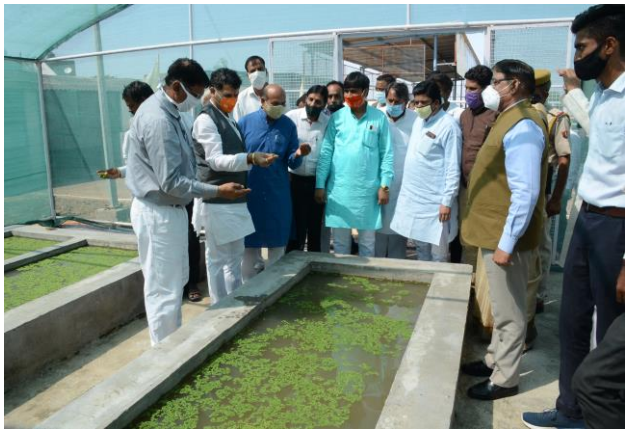
CROP TECHNOLOGY PARK

Rabi 2022-23 crop technology park

Vermicompost Unit



Dr. S.L. Mehta Chairman QRT, Dr. D.C. Joshi, HVC, AU, Kota and QRT members visiting vermi compost unit on 10.01.2020



Azolla Unit

Insect Proof Net House Unit

Details of major projects under taken by the KVK

KVK Kota has **10** projects as detailed below which are unique strength for the service of the farming community.

Major projects: KVK was sanctioned ICAR, RKVY projects of worth ₹ 1755.23 lakh for infrastructural development, out of which ₹ 645.05 lakh has been utilized for the creation of national level infrastructure facilities i.e., model units of dairy, food processing & value addition, seed storage & processing and goat. The basic infrastructure like boundary wall, farm approach road was created at KVK. The details of projects are given as under:

S.N.	Projects	Duration	Outlay (₹ in lakh)	Major focus area
1.	Skill empowerment of women in dairy cattle management through adoption of improved livestock production techniques in Kota district of Rajasthan (RKVY)	2014-18	275.76	To enhance the productivity of indigenous cows through feeding and management. To establish model dairy unit of gir cow at KVK. To establish milk parlour and biogas plant.
2.	Processing & value addition of seasonal foods for maximum profitability and income generation among rural youth of south east Rajasthan (RKVY)	2014-19	142.97	Skill development of 150 rural youth per year for their employment through entreprenurship development. To establish model food processing & value addition unit.
3.	National innovations in climate resilient agriculture (ICAR)	2016-21	45.79	Technology demonstrations on climate resilient technology.
4.	Seed-hub for increasing indigenous production of pulses (ICAR)	2016-19	150.00	To produce, procure and promote of quality seeds of pulses. To establish seed grading & storage

				unit.
5.	Strengthening of infrastructure facilities at KVK for increasing seed production (RKVY)	2016-21	164.00	To strengthen the infrastructural facilities for quality seeds, planting material and bio-agents.
6.	Establishment of "Agriculture Technology and Management Quality Improvement Centre" (RKVY)	2016-21	292.70	To transfer of technology through different module from a single window delivery system. To establish ATMQIC for rapid transfer of developed technology.
7.	Standardization of crop geometry for enhancing quality tonnage and yield of annual and perennial drumstick in Kota district (RKVY)	2017-22	47.28	Standardization of crop geometry and popularization of drumstick cultivation and its better utilisation.
8.	Establishment of Sirohi goat demonstration unit for raising income and skill development of rural youth of south eastern Rajasthan (RKVY)	2017-22	186.34	To establish model Sirohi goat unit at KVK. Skill development of rural youth.
9.	Seed-hub for increasing indigenous production of oilseeds (mustard) (ICAR)	2018-21	150.00	To produce, procure and promote quality seeds of mustard. To create basic infra structure for mustard seed production.
1**0.**	Establishment of Common Incubation centre for Processing of Coriander, Garlic and Bakery Products (MoFPI)	2021-23	300.39	To provide incubation facilities to the start-ups, FPOs, SHGs, micro entrepreneurs, co-operatives and other stakeholders.
Total			**1755.23**	

1. Pulse seed hub under ICAR (2016-2023)

ICAR sanctioned a pulse seed hub project costing Rs.150.0 lakh to this KVK with the aim of production, procurement and promotion of quality seeds of urdbean, mungbean and chickpea, target of 2600 q in five years. During 2016-21, ICAR released total amount of Rs.150.0 lakhs for this project, out of which 50 lakhs were for infrastructure development (seed storage & seed grading unit) and Rs.100.0 lakhs were for revolving fund. Construction of seed storage along with seed cleaning and grading unit has been completed which is functional from October, 2017. The progress of infrastructure development at KVK Kota well in time, was highly appreciated by the Joint Secretary (Crops), Govt. of India during the review meeting of pulse seed hub held at ICAR-IIPR, Kanpur on 07.11.2017 and the Joint Secretary directed all the Nodal officers of pulse seed hub to work on the line of KVK, Kota. Under pulse seed hub KVK target of 3600 q of seed during

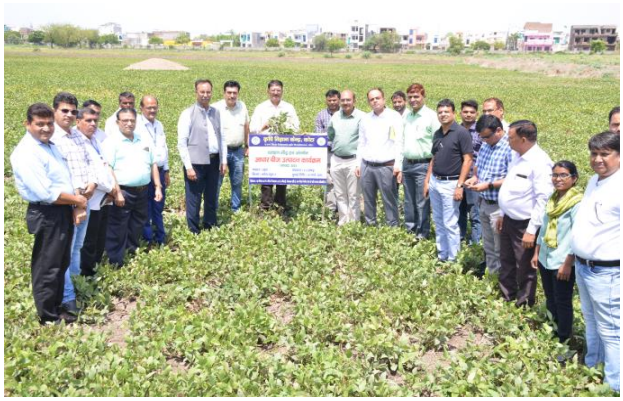
2016-23, out of which KVK produced 3564.90 q of seed during 2016-23 as per target as detailed below:

Quality seed production under pulse seed hub during 2016-2023

Crop	Variety	Year of release	Seed production (q)		
			Target	Production	Disposal
2016-17					
Urdbean	PU-31	2008	150	200.0	200.0
Mungbean	IPM 02-3	2009	100	33.2	33.2
Chickpea	GNG-1958	2013	250	255.7	255.7
Total			**500**	**488.9**	**488.9**
2017-18					
Urdbean	PU-31	2008	200	126.0	126.0
Mungbean	IPM 02-3	2009	100	66.0	66.0
Chickpea	GNG-1958	2013	300	422.5	422.5
Lentil	KRL 14-20	2017	-	9.20	9.20
Total			**600**	**623.7**	**623.7**
2018-19					
Urdbean	Pratap urd-1	2013	300	254.5	54.5
Mungbean	IPM 02-3	2009	100	58.2	58.2
Chickpea	GNG-1958	2013	600	773.8	246.0
		Total	**1000**	**1086.5**	**358.7**
2019-20					
Mungbean	Sikha	2016	-	28.5	28.5
Chickpea	GNG-1958	2013	-	65.3	793.1
	Total			**93.8**	**821.6**
2020-21					
Urdbean	Pratap urd-1	2013	150	90.0	90.0
Mungbean	IPM 410-03	2016	50	42.0	42.0
Chickpea	GNG-2144/2171	2016/2017	300	260.0	260.0
	Total		**500**	**392.0**	**392.0**
2021-22					
Urdbean	Kota Urd 3	2020	100	60.0	60.
Urdbean	Kota Urd 3	2020	50	8.0	8.0
Mungbean	MH 1142	2020	50	42.0	45.0
Chickpea	GNG-2144/2171	2016/2017	300	451.50	451.50
Total			**500**	**561.50**	**561.50**

2022-23					
Urdbean	Kota urd 3	2020	100	13.5	13.5
Chickpea	GNG 2144/2171	2016/17	300	247.0	247.0
Mungbean	MH 1142	2020	50	51.0	51.0
Urdbean	Kota urd 4	2020	50	7.0	7.0
Total			**500**	**318.50**	**318.50**
Grand Total			**3600**	**3564.90**	**3564.90**

Seed storage and grading unit under pulse seed hub



Dr. A.K. Vyas, HVC, AU, Kota and other officials of line departments visiting Blackgram Var. Kota Urd 3 of pulse seed hub

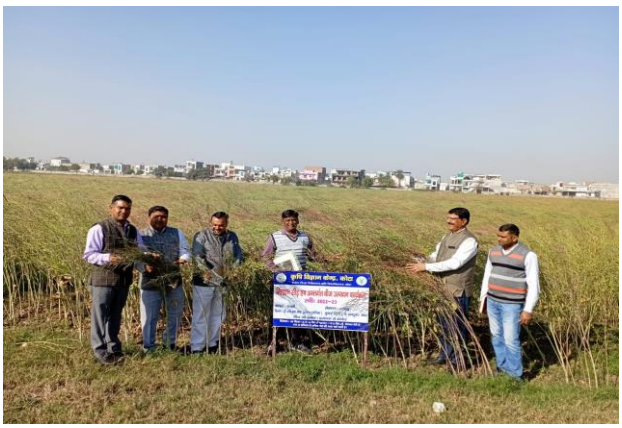
Dr. A. K Singh, DDG (AE) ICAR- New Delhi, and Dr. S K Singh, Director, ICAR-ATARI visiting Chickpea variety GNG-1958 of pulse seed hub

2. Oilseed hub under ICAR (2018-23)

ICAR sanctioned oilseed hub project on mustard costing Rs.150.0 lakh to this KVK with the aim of production, procurement and promotion of quality seeds of mustard targeting of 1150 q in three years. During 2018-19, ICAR released total amount of Rs.107.50 lakhs for this project, out of which 50 lakhs for infrastructure development (seed storage & seed grading unit) and Rs.57.5 lakhs for revolving fund.

Progress of Oilseed hub 2018-19 to 2022-23

Crop	Variety	Year of release	Target (q)	Production (q)	Disposal (q)	Category of seed
2018-19						
Mustard	DRMR IJ-31	2013	400	496.32	147.32	FS & CS
2019-20						
Mustard	DRMR IJ-31	2013	500	574.50	923.50	FS & CS
2020-21						
Mustard	DRMR IJ-31	2013	250	222.00	222.00	FS & CS
2021-22						
Mustard	Pusa Mustard 32		250	24.00	-	FS
	DRMR 1165-40			51.00	-	FS
	DRMR IJ 31	2013		257.50	-	CS
	Total		250	332.50		
2022-23						
Mustard	DRMR 2017-15	2021	250	258.0	-	FS & CS
Grand Total			**1400**	**1883.32**		



3. Establishment of Sirohi goat demonstration unit for raising income and skill development of rural youth of south eastern Rajasthan: under RKVY (2017-2022)

KVK got a project under RKVY during 2017-18 for four years total costing ₹ 186.34 lakh for establishment of model Sirohi goat unit at KVK and skill development of rural youths. KVK received a grant of ₹ 186.34 lakhs during 2017-23 which has been utilized for establishment of model demonstration units at KVK, Kota, Bundi and Karauli of siroht goat and training for rural youth on goat rearing. 40 breeding bucks provided to farmers for breed improvement.

4. Establishment of Common Incubation centre for processing of Coriander, Garlic and Bakery products under the scheme of PMFME, from Ministry of Food Processing Industries (GOI)

Krishi Vigyan Kendra, Kota (Raj.) has received an approval for Establishment of Common Incubation centre for processing of Coriander, Garlic and Bakery products under the scheme of PMFME, from Ministry of Food Processing Industries (GOI), New Delhi-110049 with a budget provision of Rs 300.39 lakh vide letter No. FM-11/75/2020-AS-FME dated 24.05.2021 with the recommendation of ICAR, New Delhi under the component of ODOP of the district Kota i.e. Coriander along with garlic and bakery products as identified by Govt. of India. As per project approval the following machineries and equipment's are to be procured and construction of building & the details are as under:

S. No.	Particulars	Approved Grant in Aid (Rs in lakh)
1	Construction of new building	83.46
2	Flooring, minor renovation, power supplies, boiler, RO plant etc	3.04
3	Processing lines on Cleaning, grading and packaging of whole coriander seeds and powders	77.16
4	Processing lines on Bakery products manufacturing	34.31
5	Processing lines on Garlic flakes unit	85.31
6	Food testing laboratory	17.11
Total		**300.39**

Objectives of CIC:

1. To provide incubation facilities to the start-ups, FPOs, SHGs, micro entrepreneurs, co-operatives and other stakeholders.
2. To organize skill trainings for the development of entrepreneurship in youth, farm women, FPOs, and to increase the efficiency and effectiveness of food industry operations.

3. To mentor and support start-ups/incubates/entrepreneurs for their establishment and operation of new enterprises.
4. To work as centre of excellence in coriander and garlic processing for different stakeholders, farmers, entrepreneurs, researchers, policy makers and others.

Salient feature of Incubation Centre:

i. Processing line 1: Cleaning, grading and packing of whole coriander seeds and powder (capacity-250 kg per hour).
ii. Processing line 2: Bakery products manufacturing line (capacity-100 kg per hour).
iii. Processing line 3: Garlic flake unit (capacity-250 kg per hour).
iv. Support and mentoring the start-ups, entrepreneurs, rural youth and other stakeholders.

Present status:

- Construction works of new building and the installation & trial run of machineries for all three processing lines have been completed.
- The selection of operator for O & M agency has been finalized.
- The physical verification by joint committee of SNA, Mentor institute and host institute completed on 23.02.2024.

NARI (Nutri-Sensitive Agricultural Resources and Innovation) Project

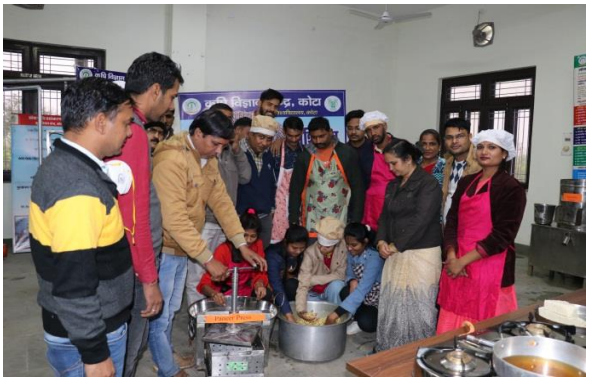
KVK Kota stressed on creating awareness for right nutrition under NARI programme, the basic objective of the project is to emphasized on making the women aware about right nutrition through women-centric programmes.KVK Kota selected two villages Raikheda and Chomabibu for various activities of NARI.

Activity	Types	Units/Trainings	Area (Sqm)	No of beneficiaries
Nutrition Garden Demonstration	Backyard/Kitchen garden	30	3000	120
	Community level	10	1000	100
Trainings	Soya Processing	01		25
	Millet Processing	01		25
	Nutri thali and nutri garden	01		25
Awareness programme	Poshan vatika kaise lagae	01		45
	Sway sahayta samuh kaise kare vyavsay	01		35
	poshan thali mai ahar ka santulan	01		125

Value Addition Technology Incubation Centre in Agriculture (VATICA)

Kota is the major trading centre for Soybean and garlic. The Kota division of the state covering 95.4 per cent acreage of Rajasthan (181712 ha) and enjoying the status of monopoly of coriander production. Whereas processing of all these three crops is very less this region KVK Kota organised various training and awareness programmes under VATICA project in the year 2021The basic objective of the project is to create awareness and develop skills regarding locally available food crops processing and enhance farmers income. A model unit of food processing & value addition has been established at KVK Kota for providing skill development trainings to the youths. 160 youths have already started their own entrepreneurial units in processing and they earn average income of 6.0 lakhs annually.

Activity	Types	Trainings	No of beneficiaries
Trainings	Soya milk allied product Processing	02	50
	Drumstick processing	01	25
	Amla processing and value addition	01	25
Awareness programme	Sway sahayta samuh hetu khdya prasnsakaran udhyog	03	84
	Haldi pransakaran kauise kare	01	22



समन्वित कृषि प्रणाली : किसानों की खुशहाली

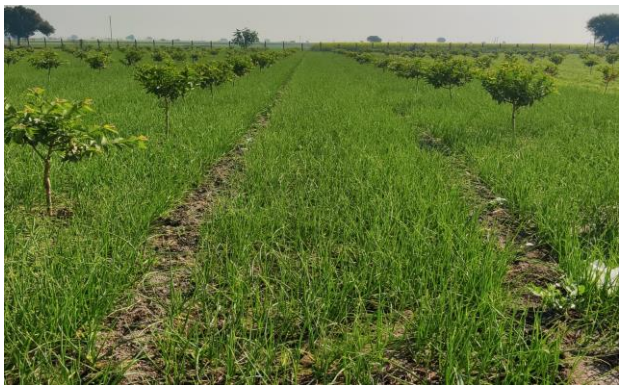
कृषि के विभिन्न उद्यमों जैसे फसल उत्पादन, पशुपालन, फल एवं सब्जी उत्पादन इत्यादि का समायोजन जिससे संसाधनों की क्षमता एवं उत्पादकता में वृद्धि हो सके। कृषि विज्ञान केन्द्र पर आयोजित प्रशिक्षणों एवं तकनीकी मार्गदर्शन से श्री घनश्याम यादव ग्राम सुहाना द्वारा 3.00 है. क्षेत्र में समन्वित कृषि प्रणाली मॉडल अपनाया। इसमें 1.00 है. में अमरूद का बगीचा, 0.5 है. में पपीता 0.5 है. में आलू एवं अन्तराशष्य तकनीक से नगदी फसलो की खेती कर रहे हैं तथा इनके पास 2 भैंस एवं 1 गाय है। इस समन्वित कृषि प्रणाली मॉडल से वार्षिक 8.00–9.00 लाख रूपये शुद्ध आय अर्जित कर रहे है।

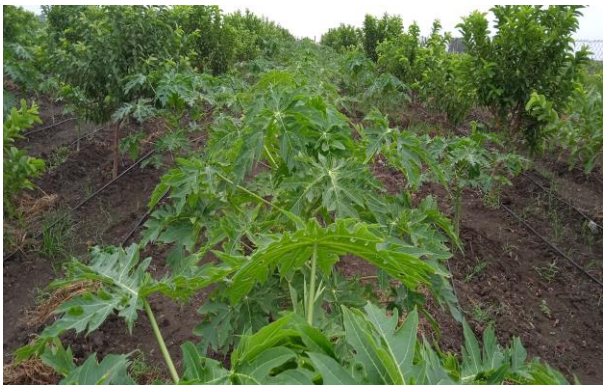
क्षैतिज प्रसार

कृषि विज्ञान केन्द्र द्वारा कृषि विज्ञान मेला 2022 में श्री यादव को समन्वित कृषि प्रणाली मॉडल विकसित करने हेतु प्रशस्ति पत्र मिला। श्री यादव के समन्वित कृषि प्रणाली के **"सुहाना मॉडल"** को जिले के दूसरे किसान भी अपना रहे हैं।

केन्द्र के तकनीक मार्गदर्शन द्वारा किसानों के खेतों में स्थापित आईएफएस मॉडल

क.सं.	नाम	पता	मोबाईल नं.	वार्षिक शुद्ध आय (लाख में)
1	सत्यनारायण यादव	सुहाना,दीगोद	9414179545	5.00–6.00
2	परमानन्द	सुहाना,दीगोद	9928476044	4.00–5.00
3	बृजमोहन मीणा	चौमाकोट	9928259037	3.00–4.00
4	सुरेश मीणा	राईखेडा	8290409774	4.00–5.00





बागवानी : किसान समृद्धि की कहानी

कृषि विज्ञान केन्द्र द्वारा जिले में बागवानी को बढ़ावा देने हेतु कौशल विकास प्रशिक्षण आयोजित किये जाते है। कोटा जिले के पीपल्दा निवासी श्री मनोज खण्डेलवाल ने परम्परागत खेती की जगह बागवानी को अपनाकर अपने खेत में केन्द्र के तकनीकी मार्गदर्शन से 5.00 है. अमरूद (किस्म – वीएनआर–वीही, थाईपिंक, बर्फखानगोला) का बगीचा स्थापित किया। जिससे प्रतिवर्ष 15.00–18.00 लाख रूपये की शुद्ध आय अर्जित कर रहे है। वर्तमान में श्री खण्डेलवाल द्वारा और 4.00 है. में नया अमरूद का बगीचा स्थापित किया गया है।

अमरूद बगीचा स्थापना का आर्थिक विश्लेषण (5.00 है.)

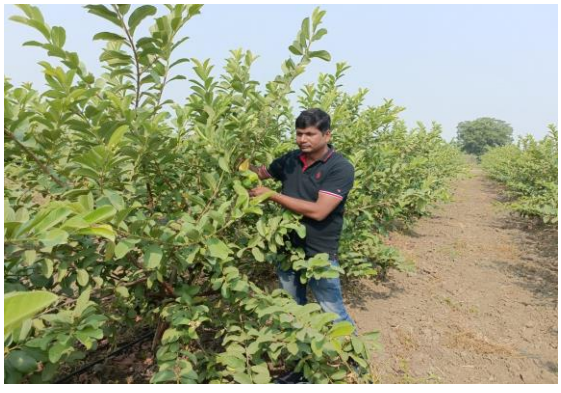
स्थापना खर्च	: 8.00– 10.00 लाख रूपये (ड्रिप सिंचाई के साथ)
कुल फल उत्पादन प्रतिवर्ष	: 100–110 टन
फल विक्रय दर	: 20–25 रूपये प्रति कि.ग्रा.
कुल वार्षिक आय	: 20.00–25.00 लाख रूपये
कुल वार्षिक लागत	: 5.00–6.00 लाख रूपये
कुल वार्षिक शुद्ध लाभ	: 15.00–20.00 लाख रूपये
लाभ लागत अनुपात	: 3.00

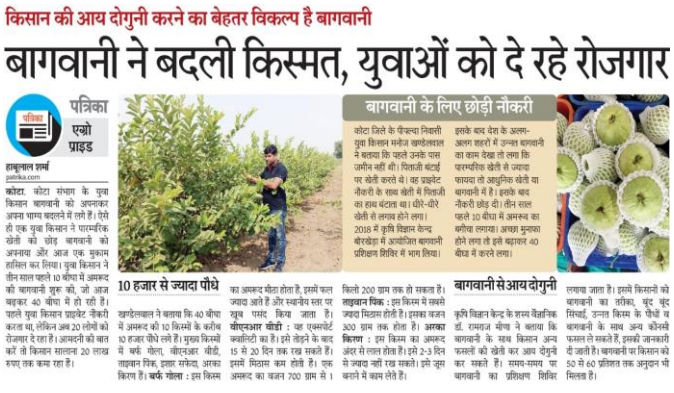
क्षैतिज प्रसार

- केन्द्र से प्रशिक्षण प्राप्त कर एवं श्री खण्डेलवाल द्वारा प्रेरणा लेकर जिले के 20 से अधिक ग्रामीण युवाओं ने बागवानी को रोजगार के रूप में अपनाकर 8.00–15.00 लाख रूपये प्रति वर्ष कमा रहे है।
- श्री खण्डेलवाल को उद्यानिकी के क्षेत्र में उत्कृष्ठ कार्य करने हेतु भारतीय जैविक किसान उत्पादक संघ एवं कृषि विज्ञान केन्द्र द्वारा जिला स्तरीय कृषक प्रशस्ति पत्र एवं अन्य पुरस्कार प्राप्त हुए है।

केन्द्र के तकनीक मार्गदर्शन से किसानों के खेतों में स्थापित मुख्य बागवानी इकाई

क्र.सं.	नाम	पता	मोबाईल नं.	वार्षिक शुद्ध आय (लाख में)
1	गिर्राज प्रसाद मीणा	बूढ़ादीत, कोटा	9680840702	8.00–10.00
2	मुकेश कुमार मीणा	उमरहेड़ी, कोटा	6375443261	12.00–15.00
3	जयप्रकाश गहलोत	अर्जुनपुरा, कोटा	9530013508	10.00–12.00
4	प्रहलाद मीणा	राईखेड़ा, कोटा	8107952451	8.00–10.00





किसान की आय दोगुनी करने का बेहतर विकल्प है बागवानी

बागवानी ने बदली किस्मत, युवाओं को दे रहे रोजगार

पत्रिका एग्रो प्राइड

हाकूलाल शर्मा

patrika.com

कोटा. कोटा संभाग के युवा किसान बागवानी को अपनाकर अपना भाग्य बदलने में लगे हैं। ऐसे ही एक युवा किसान ने पारम्परिक खेती को छोड़ बागवानी को अपनाया और आज एक मुकाम हासिल कर लिया। युवा किसान ने तीन साल पहले 10 बीघा में अमरूद की बागवानी शुरू की, जो आज बढ़कर 40 बीघा से हो रही है। पहले युवा किसान प्राइवेट नौकरी करता था, लेकिन अब 20 लोगों को रोजगार दे रहा है। आमदनी की बात करें तो किसान सालाना 20 लाख रुपए तक कमा रहा है।

10 हजार से ज्यादा पौधे

खण्डेलवाल ने बताया कि 40 बीघा में अमरूद की 10 किस्मों के करीब 10 हजार पौधे लगे हैं। मुख्य किस्मों में बर्फ गोला, वीएनआर थीही, ताइवान पिंक, इलाहाबाद सफेदा, अरका किरण हैं। **बर्फ गोला :** इस किस्म का अमरूद मीठा होता है, इसमें फल ज्यादा आते हैं और स्थानीय स्तर पर खूब पसंद किया जाता है। **वीएनआर थीही :** यह एक्सपोर्ट क्वालिटी का है। इसे तोड़ने के बाद 15 से 20 दिन तक रख सकते हैं। इसमें मिठास कम होती है। एक अमरूद का वजन 700 ग्राम से 1 किलो 200 ग्राम तक हो सकता है। **ताइवान पिंक :** इस किस्म में सबसे ज्यादा मिठास होती है। इसका वजन 300 ग्राम तक होता है। **अरका किरण :** इस किस्म का अमरूद अंदर से लाल होता है। इसे 2-3 दिन में ज्यादा नहीं रख सकते। इसे जूस बनाने में काम लेते हैं।

बागवानी के लिए छोड़ी नौकरी

कोटा जिले के पीपल्दा निवासी युवा किसान मनोज खण्डेलवाल ने बताया कि पहले उनके पास जमीन नहीं थी। पैतृक बंटाई पर खेती करते थे। वह प्राइवेट नौकरी के साथ खेती में पिताजी का हाथ बंटाता था। धीरे-धीरे खेती से लगाव होने लगा। 2018 में कृषि विज्ञान केन्द्र बोरखेड़ा में आयोजित बागवानी प्रशिक्षण शिविर में भाग लिया। इसके बाद देश के अलग-अलग शहरों में उन्नत बागवानी का काम देखा तो लगा कि पारम्परिक खेती से ज्यादा फायदा तो आधुनिक खेती या बागवानी में है। इसके बाद नौकरी छोड़ दी। तीन साल पहले 10 बीघा में अमरूद का बगीचा लगाया। अच्छा मुनाफा होने लगा तो इसी बढ़ाकर 40 बीघा में करने लगा।

बागवानी से आय दोगुनी

कृषि विज्ञान केन्द्र के शस्य वैज्ञानिक डॉ. रामराज मीणा ने बताया कि बागवानी के साथ किसान अन्य फसलों की खेती कर आय दोगुनी कर सकते हैं। समय-समय पर बागवानी का प्रशिक्षण शिविर लगाया जाता है। इससे किसानों को बागवानी का तरीका, खाद, बूंद सिंचाई, उन्नत किस्म के पौधे व बागवानी के साथ अन्य कौनसी फसल ले सकते हैं, इसकी जानकारी दी जाती है। बागवानी पर किसान को 50 से 60 प्रतिशत तक अनुदान भी मिलता है।

News Coverage

दैनिक नवज्योति Kota City - 27 May 2023 - Page 7

कृषि विज्ञान केन्द्र की वैज्ञानिक सलाहकार समिति की वार्षिक बैठक सम्पन्न

केवीके में हाइड्रोपोनिक, वर्टीकल फार्मिंग व मशरूम उत्पादन की स्थापित होगी मॉडल इकाइयां

नवज्योति/कोटा।

कृषि विज्ञान केन्द्र की 30 वीं वैज्ञानिक सलाहकार समिति की वार्षिक बैठक शुक्रवार को कृषि विश्वविद्यालय के कुलपति डॉ. अभय कुमार व्यास की अध्यक्षता में सम्पन्न हुई, जिसमें केन्द्र की वर्ष 2022-23 की प्रगति एवं वर्ष 2023-24 की कार्य योजना पर विचार विमर्श किया गया।

कुलपति ने कहा कि कृषि विज्ञान केन्द्र के कार्यक्रम स्टेक होल्डर्स किसान, महिलाएं, स्टार्टअप उद्यमी, इण्डस्ट्रीज, विद्यार्थियों की मांग एवं फीडबैक के आधार पर बनाए जाने चाहिए। उन्होंने कहा कि कोटा केन्द्र द्वारा किए जा रहे कार्य देश के अन्य केन्द्रों के लिए अनुकरणीय है। केन्द्र पर हाइड्रोपोनिक, वर्टीकल फार्मिंग मशरूम उत्पादन की मॉडल इकाईयों की शीघ्र ही स्थापना की जाएगी। जिससे राज्य के हजारों कृषक लाभान्वित होंगे। किसानों की आय में बढ़ोत्तरी के लिए समन्वित कृषि प्रणाली को बढ़ावा दिया जाना चाहिए।

नर्सरी इकाइयों में तैयार होगें सजावटी पौधे

इस अवसर पर समिति के सदस्यों को केन्द्र के फार्म पर मूंग किस्म एमएच 1142, उड़द किस्म 3 व 4 के लिए बीज उत्पादन कार्यक्रम का अवलोकन कराया गया। बैठक में केन्द्र के वैज्ञानिकों द्वारा प्राकृतिक खेती पर तैयार किए फोल्डर का विमोचन किया गया। निदेशक प्रसार शिक्षा कृषि विश्वविद्यालय डॉ. एसके जैन ने नर्सरी इकाई में सजावटी पौधे तैयार करने एवं गिर गाय के दूध के सही मूल्य के लिए एक सोसायटी बनाने का सुझाव दिया। निदेशक अनुसंधान कृषि विश्वविद्यालय डॉ. प्रताप सिंह ने किसानों को और अधिक उच्च उत्पादकता वाली किस्मों के बीज उपलब्ध कराए जाने एवं अधिष्ठाता कृषि महाविद्यालय डॉ. एमसी जैन ने अधिक से अधिक विद्यार्थियों को केन्द्र का भ्रमण कराये जाने की आवश्यकता बतायी।

प्राकृतिक खेती पर दिया जोर

अतिरिक्त निदेशक कृषि खण्ड कोटा पीके गुप्ता ने केन्द्र द्वारा तैयार किये गये उद्यमियों का सम्मेलन आयोजित करने की सलाह दी जिससे जिले में और अधिक युवाओं को कृषि उद्यमी बनाये जाने के लिए प्रेरित किया जा सके। प्रधान वैज्ञानिक आईसीएआर अटारी डॉ. मोहर सिंह मीणा ने सफल उद्यमियों की कहानियों को डोकूमेन्ट करने एवं आईसीएआर, डडवाडा डॉ रामवतार जाट ने प्राकृतिक खेती को बढ़ावा दिये जाने की जानकारी दी।

संयुक्त निदेशक कृषि डॉ. खेमराज शर्मा ने खरीफ में बुवाई रिज प्लांटर, डॉ शंकर लाल जागिड़ ने उद्यमिता विकास, परियोजना निदेशक सीएडी नान्ता जेके शर्मा ने समन्वित उर्वरक प्रबन्धन, संयुक्त निदेशक उद्यान पीके सिंह ने सब्जी उत्पादन को बढ़ावा देने, उपनिदेशक उद्यान आनन्दी लाल मीणा ने फल उत्पादन को बढ़ावा देने दिया। डॉ. तनोज चौधरी ने सीएडी एरिया में हरा चारा उत्पादन को बढ़ावा देने का सुझाव दिया। लीड बैंक अधिकारी के आर मीणा ने किसानों को प्राथमिकता के आधार पर ऋण उपलब्ध करवाने, नाबार्ड के अधिकारी, रामप्रसाद शर्मा ने एफपीओ को बढ़ावा देने, इफको के लालाराम चौधरी ने नैनो यूरिया, एनएससी के मुकेश वर्मा ने बीज उत्पादन के बारे में बताया। मत्स्यपालन की डॉ. अमृता शिवानी ने मछली पालन को बढ़ावा देने, डॉ. डीआर मेघवाल ने युवाओं को कृषि से जोड़ने, आकाशवाणी के हरिओम मीणा, डॉ. अर्जुन वर्मा, दुर्गेश कुमारी, संतोष कुमार सुरेश मीणा, सुमन शर्मा, हेमलता सोनगरा ने भी अपने विचार रखे।

दैनिक नवज्योति Kota City - 04 Jul 2023 - Page 8

कृषि विज्ञान केन्द्र में कार्यशाला आयोजित

कृषि प्रोडेक्ट के उत्पादन व गुणवत्ता के विपणन पर ध्यान देना जरूरी

नवज्योति/कोटा। कृषि विज्ञान केन्द्र कोटा में सोमवार को कार्यशाला का आयोजन किया गया। यह कार्यक्रम चौधरी चरण सिंह राष्ट्रीय कृषि विपणन संस्थान, जयपुर एवं कृषि विश्वविद्यालय कोटा के संयुक्त तत्वावधान में आयोजित हुआ। जिसमें 5 दर्जन स्टोक होल्डर्स, कृषि उद्यमी, एफपीओ, प्रगतिशील कृषकों ने भाग लिया। कार्यशाला को संबोधित करते हुए कृषि विश्वविद्यालय के प्रसार शिक्षा निदेशक डॉ. एसके जैन ने कहा, हमें कृषि उत्पादों के उत्पादन व गुणवत्ता के विपणन पर भी ध्यान देना होगा। किसानों की आय में वृद्धि के लिए कृषि उत्पादों का प्रसंस्करण, भण्डारण एवं उचित मूल्य पर विपणन आवश्यक है। इधर, चौधरी चरण सिंह राष्ट्रीय कृषि विपणन संस्थान के उपनिदेशक डॉ. एसआर सिंह ने देश में कृषि विपणन की स्थिति एवं सम्भावनाएं, कृषक उत्पादक संगठन की भूमिका के बारे में बताया। साथ ही कृषि विपणन के लिए भारत सरकार द्वारा संचालित विभिन्न ऐप के माध्यम से उत्पादन विपणन की प्रक्रिया समझाई। केन्द्र के वरिष्ठ वैज्ञानिक डॉ. महेन्द्र सिंह ने बताया कि केन्द्र द्वारा स्टोक होल्डर्स में उद्यमिता विकास कर उन्हें मार्केट से जोड़कर

उद्यमी बनाने का कार्य किया जा रहा है। जिससे सैंकड़ों युवा, महिलाएं स्वरोजगार प्राप्त कर रही हैं। कार्यशाला प्रभारी, डॉ. रूपसिंह ने विपणन के विभिन्न प्लेटफार्म, डॉ. राकेश कुमार बैरवा ने उच्च गुणवत्ता के कृषि उत्पादों के उत्पादन, डॉ. बीएल नागर ने फल सब्जी, उत्पादन एवं प्रसंस्करण, गुंजन सनाढय ने खाद्य प्रसंस्करण एवं सरिता बेनीवाल ने खाद्य पदार्थों के संरक्षण की जानकारी दी।

लायंस क्लब कोटा शक्ति ने किया सीए व डॉक्टरों का सम्मान

नवज्योति/कोटा। लायंस क्लब कोटा शक्ति की ओर से सीए व डॉक्टरों का सम्मान किया गया। क्लब सचिव सुबाश्री जैन सर्राफ ने बताया कि कार्यक्रम में डॉ. रेनू वर्मा, डॉ. बीआर मीना, सीए अंकित गुप्ता, सीए प्रतीक

बाबेल, सीए कल्पेश जैन व सीए कृतिक जैन को सम्मानित किया गया। क्लब अध्यक्ष अल्का जैन ने प्रशस्ति पत्र देकर सम्मानित किया।

News Coverage

दैनिक नवज्योति
Kota City - 05 May 2023 - Page 8

कृषि विज्ञान केन्द्र में चार दिवसीय शिविर का समापन

युवा बकरी पालन को व्यवसाय के रूप में अपनाएं

नवज्योति/कोटा

कृषि विज्ञान केन्द्र में बकरी पालन पर चार दिवसीय शिविर का आयोजन किया गया। जिसमें संभाग के 35 पशुपालकों ने भाग लिया। प्रशिक्षण शिविर के समापन अवसर पर कृषि विज्ञान केन्द्र, वरिष्ठ वैज्ञानिक एवं अध्यक्ष, डॉ. महेन्द्र सिंह ने बताया कि संभाग के युवा बकरी पालन को व्यवसाय के रूप में अपनाकर उद्यमी बन सकते हैं। बकरी पालन व्यवसाय, कम लागत एवं कम स्थान के साथ शुरू किया जा सकता है तथा इसमें जोखिम भी बहुत कम है। प्रशिक्षण शिविर के प्रभारी प्रोफेसर रामआसरे ने बताया कि सिरोही नस्ल की बकरी से उच्च गुणवत्ता का मांस एवं दूध मिलता है। कृषि विज्ञान केन्द्र, बून्दी के पशुपालन विशेषज्ञ, डॉ. घनश्याम मीणा ने बकरियों के आहार तथा बकरियों में खुर काटना, टैग लगाना, शरीर तापमान ज्ञात करना आदि की जानकारी पशुपालकों को दी। कार्यक्रम में एग्री. क्लीनिक एवं एग्री. बिजनिस सेन्टर उदयपुर के डॉ. मुकेश सुथार ने बताया कि नेशनल लाइवस्टोक मिशन के अन्तर्गत पशुपालक 100 बकरियों की यूनिट पर 10 लाख रुपए की केपिटल सब्सिडी ले सकते हैं। उन्होंने पशुपालकों को इसकी विस्तृत जानकारी भी प्रदान की। नाबार्ड के डीडीएम रामप्रसाद शर्मा ने बताया कि बकरी पालन को बढ़ावा देने के लिए बैंकों द्वारा ऋण को प्राथमिकता दी जाएगी। केन्द्रीय भेड़ एवं ऊन अनुसंधान संस्थान के वरिष्ठ वैज्ञानिक डॉ. सत्यवीर सिंह ने बताया कि बकरी पालक हैल्थ कलेण्डर को अपनाकर बकरियों में मृत्युदर को 5 प्रतिशत से कम कर सकते है। पशुपालन विभाग के वरिष्ठ पशुचिकित्सक, डॉ. भंवरलाल ने बकरियों में टीकाकरण एवं कृमिनाशक दवा पिलाने की जानकारी दी। शिविर में बकरियों की नस्ल एवं आवास, बकरी के दूध प्रसंस्करण, हराचारा उत्पादन, बकरी फार्म स्थापना के समय ध्यान रखने योग्य मुख्य बातों की भी जानकारी दी गई।

दैनिक नवज्योति
Kota City - 27 Apr 2023 - Page 6

कृषि विज्ञान केंद्र में दो दिवसीय शिविर का शुभारंभ

प्राकृतिक खेती से बढ़ेगी किसानों की आय

नवज्योति/कोटा।

कृषि विभाग एवं इंस्टीट्यूट ऑफ एग्रीकल्चर सांइसेज एंड टेक्नोलॉजी ट्रस्ट के तत्वावधान में बुधवार को कृषि विज्ञान केन्द्र में प्राकृतिक खेती पर शिविर आयोजित किया गया। जिसमें कोटा जिले के प्राकृतिक खेती से जुड़े 100 से अधिक कृषकों ने भाग लिया। कृषि विश्वविद्यालय के कुलपति प्रो. अभय कुमार व्यास ने बताया कि खाद्य सुरक्षा के लिए आधुनिक खेती पर जोर दिया गया। इसके बाद आर्गेनिक फार्मिंग का दौर चला तथा वर्तमान में प्राकृतिक खेती को अपनाने की जरूरत है। उन्होंने वन हेल्थ कॉनसेप्ट की जानकारी देते हुए बताया कि हमें मृदा को स्वस्थ रखना होगा, जिससे स्वस्थ फसल, चारा, पशु आहार, स्वस्थ वातावरण होगा। उन्होंने कहा कि प्राकृतिक खेती को अपनाने से कृषि की लागत में कमी होगी और कृषि उत्पादों की गुणवत्ता में सुधार होगा। जिससे बाजार में अधिक मूल्य प्राप्त होगा।

अतिरिक्त जिला कलक्टर राजकुमार सिंह ने बताया कि हमें उपभोक्ताओं के स्वास्थ्य का ध्यान रखते हुए रसायनिक उर्वरकों एवं कीटनाशकों के उपयोग में कमी लाकर प्राकृतिक खेती को अपनाना

चाहिए। प्राकृतिक खेती से कृषि के उत्पादन में कमी नहीं होती बल्कि उपभोक्ताओं के अच्छे स्वास्थ्य के कारण लाभ प्राप्त होता है। किसानों को नागरिकों के स्वास्थ्य का भी ध्यान रखना चाहिए।

इस्टीटयूट ऑफ एग्रीकल्चर सांइसेज एण्ड टेक्नोलॉजी ट्रस्ट के सैजल स्वामी ने बताया कि विश्व को भारत ने खेती करना सिखाया। उन्होंने बताया कि शिविर में किसानों को बीजामृत, जीवामृत, घनजीवामृत, नीमास्त्र, बहामास्त्र, अग्निस्त्र, तामुदही, पंचगव्य बनाना सिखाया जाएगा। जिनका उपयोग कर हाड़ौती के किसान प्राकृतिक खेती को अपना सकेंगे।

कृषि विभाग के अतिरिक्त निदेशक पीके गुप्ता ने बताया कि हाड़ौती के किसान उर्वरक एवं रसायनों का अधिक उपयोग कर रहे हैं, जो कि चिन्ताजनक है। शिविर में डॉ. एस. के. जैन, निदेशक प्रसार शिक्षा, पीएम एंड ई के निदेशक डॉ. एमसी गोयल, संयुक्त निदेशक कृषि (विस्तार) खेमराज शर्मा, सहायक निदेशक कृषि एवं कृषि विज्ञान केन्द्र राजवीर सिंह, कोटा के वरिष्ठ वैज्ञानिक डॉ. महेन्द्र सिंह मौजूद रहे।

आकाश शहर जिलाध्यक्ष नियुक्त

नवज्योति/कोटा।

गौरक्षादल विराट बजरंग दल के राष्ट्रीय अध्यक्ष राजवीर बंजारा व प्रदेश महामंत्री गुड्डू मरचुनिया की सहमति से आकाश मेहरा को कोटा शहर जिलाध्यक्ष नियुक्त किया।

दैनिक भास्कर
कोटा 06-12-2023

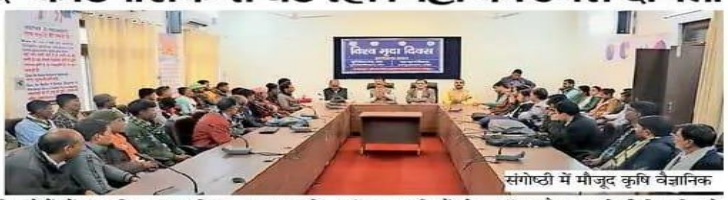
विश्व मृदा दिवस • कृषि विज्ञान केंद्र में आयोजित संगोष्ठी में बोले कृषि वैज्ञानिक

रासायनिक खाद-कीटनाशक से घट रही मिट्टी की उर्वरा क्षमता

सिटी रिपोर्टर | कोटा

कृषि विज्ञान केंद्र, जलग्रहण विकास एवं भू-सरक्षंण विभाग एवं कृषि विभाग के सयुंक्त तत्वाधान में मंगलवार को कृषि विज्ञान केन्द्र पर विश्व मृदा दिवस का आयोजन किया।

कृषि विज्ञान केन्द्र के वरिष्ठ वैज्ञानिक एवं अध्यक्ष डॉ. महेन्द्र सिंह ने बताया कि इस बार विश्व मृदा दिवस की थीम मिट्टी और जल जीवन का एक स्त्रोत है रही। उन्होंने बताया कि मृदा दिवस का मुख्य उद्देश्य लोगों को स्वस्थ मिट्टी के महत्व के बारे में जागरूक करना है। कृषि विभाग के संयुक्त निदेशक खेमराज शर्मा ने बताया



संगोष्ठी में मौजूद कृषि वैज्ञानिक

कि खेतों में अत्यधिक रासायनिक खाद एवं कीटनाशक के प्रयोग से मिट्टी के जैविक गुणों में कमी आ रही है और मिट्टी की उपजाऊ क्षमता घटती जा रही है। जलग्रहण विकास एवं भू-संरक्षण विभाग के अधीक्षण अभियन्ता उमेश गुप्ता ने बताया कि खराब भूमि प्रबंधन प्रणालियों ने कई स्थानों पर मिट्टी की गुणवत्ता को खराब कर दिया है, जिससे मृदा क्षरण, मृदा उर्वरता में कमी और कार्बनिक पदार्थों की हानि हो रही है। वैज्ञानिक डॉ. राकेश कुमार बैरवा ने बताया कि कृषक उर्वरकों का उपयोग सॉयल हैल्थ कार्ड की सिफारिश के अनुसार करें। डॉ. अरविन्द नागर ने बताया कि मृदा के स्वास्थ्य को बनाए रखने के लिए देशी खाद की उपयोग की जानकारी दी। डॉ. रूपसिंह ने बेस्ट डी-कम्पोजर एवं ट्राईकोडर्मा के उपयोग की जानकारी दी।

News Coverage

दैनिक नवज्योति
Kota City - 13 Dec 2023 - Page 6

जिला स्तरीय मिलेनियर फार्मर सम्मान समारोह

नवीन कृषि प्रौद्योगिकी अपनाकर बिलेनियर फार्मर बनें: कलक्टर

जिला कलक्टर कृषि विज्ञान केन्द्र पर सम्मानित करते हुए।

नवज्योति/कोटा

कृषि जागरण एवं एग्रीकल्चर वर्ल्ड तथा कृषि विज्ञान केन्द्र की सहभागिता से जिला स्तरीय मिलेनियर फार्मर सम्मान समारोह का आयोजन मंगलवार को कृषि विज्ञान केन्द्र पर आयोजित किया गया। जिसमें जिले के मिलेनियर फार्मरस का सम्मान किया गया। समारोह के मुख्य अतिथि जिला कलक्टर एमपी मीना ने मिलेनियर फार्मर्स को प्रशस्ति पत्र एवं ट्रॉफी देकर सम्मानित किया। उन्होंने किसानों को आव्हान किया कि कृषि विज्ञान केन्द्र एवं कृषि जागरण के मार्गदर्शन में कृषक, कृषि की नई प्रौद्योगिकी को अपनाकर मिलेनियर से बिलेनियर फार्मर बने। जिले में कृषि की अपार संभावनाओं को देखते हुऐ जिले के युवा कृषक, कृषि, डेयरी, उद्यानिकी, मधुमक्खी पालन, खाद्य प्रसंस्करण, मशरूम उत्पादन आदि को अपनाकर कृषि उद्यमी बने। उन्होंने मिलेनियर फार्मर्स से संवाद किया तथा केन्द्र की मॉडल डेयरी एवं खाद्य प्रसंस्करण इकाई का अवलोकन किया। उन्होंने बताया की कृषि विज्ञान केन्द्र पर स्थित मॉडल प्रदर्शन इकाइयां देश के अन्य केन्द्रों के लिए भी रोल मॉडल है। इस केन्द्र पर देश के विभिन्न क्षेत्रों से किसानों को प्रशिक्षण के लिए भेजे जाने की आवश्यकता है।

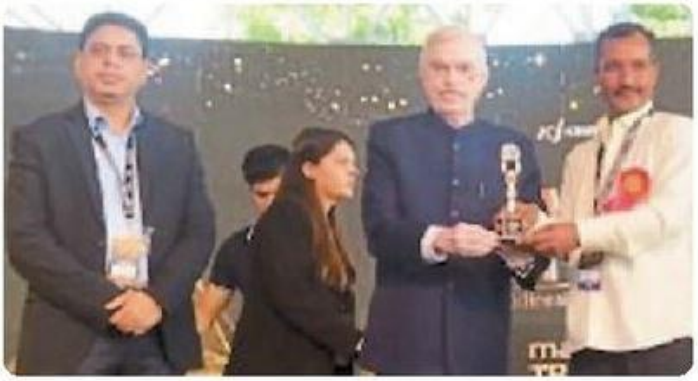
विभिन्न केन्द्रों पर होगा सम्मान समारोह

कृषि जागरण एवं एग्रीकल्चर वर्ल्ड के संस्थापक एवं प्रधान सम्पादक एमसी डोमिनिक ने बताया कि आने वाला समय किसानों का है तथा देश भविष्य में बिलेनियरी किसानों के नाम से जाना जाएगा।

किसानों की आय में बढ़ोत्तरी के लिए कृषि जागरण देश के विभिन्न केन्द्रों पर मिलेनियर फार्मर सम्मान समारोह का आयोजन करेगा। कृषि विज्ञान केन्द्र के वरिष्ठ वैज्ञानिक एवं अध्यक्ष डॉ. महेन्द्र सिंह ने बताया कि केन्द्र जिले के किसानों को मिलेनियरी किसान बनाने के लिए विभिन्न विभागों, एजेन्सियों के साथ मिलकर विभिन्न कार्यक्रमों को आयोजन करेगा। कृषि विभाग के संयुक्त निदेशक खेमराज शर्मा ने कृषि विभाग एवं आनन्दीलाल मीना ने उद्यान विभाग की विभिन्न योजनाओं की जानकारी दी। इस अवसर पर केन्द्र के वैज्ञानिक डॉ. राकेश बैरवा ने प्राकृतिक खेती, डॉ. रूप सिंह ने रबी फसलों में रोग प्रबंधन, डॉ. अरविन्द्र नागर ने उद्यानिकी एवं गुंजन सनाढ्य ने खाद्य प्रसंस्करण की जानकारी दी। इस अवसर पर खाद्य प्रसंस्करण में बेबीरानी, सुमन शर्मा, हेमलता सोनगरा, गायत्री वैष्णव, मधुमक्खी पालन में नरेन्द्र मालव, हरिप्रसाद मीना, रामवीर, हरिओम मेहरा, डेयरी फार्मिंग में जिनेन्द्र चौधरी, रोहित सिंह, जैविक खेती में युधिष्ठर चान्सी, प्रहलाद बैरवा, ईश्वर गौतम, समन्वित कृषि प्रणाली में घनश्याम यादव, बृजमोहन मीना, सुरेश मीना बागवानी में मनोज खण्डेलवाल, गौरव खण्डेलवाल को किए जा रहे उत्कृष्ट कार्य के लिए सम्मानित किया।

पत्रिका

समन्वित कृषि प्रणाली पर कोटा के किसान घनश्याम को अवार्ड



कोटा. कृषि में नवाचार व समन्वित कृषि पर कोटा जिले के सुहाना निवासी किसान घनश्याम यादव को भारतीय अनुसंधान परिषद नई दिल्ली के मेला ग्राउण्ड में आयोजित कार्यक्रम में डिस्ट्रिक मिलेनियर फार्मर ऑफ इंडिया अवार्ड 2023 से सम्मानित किया। यादव ने बताया कि कृषि जागरण की ओर से 6 से 8 दिसम्बर तक दिल्ली में आयोजित कार्यक्रम में देशभर से खेती में नवचारा, बागवानी यानी समन्वित खेती करने वाले किसानों का चयन कर उन्हें सम्मानित किया गया। कार्यक्रम में मुख्य अतिथि सर्वोच्चय न्यायालय के पूर्व न्यायाधीश व गुजरात के राज्यपाल आचार्य देवकृत ने अवार्ड प्रदान किया। उन्होंने बताया कि कोटा कृषि विश्वविद्यालय, केवीके कोटा व आत्मा से तकनीकी ज्ञान व प्रशिक्षण के बाद साल 2018 से उद्यानिकी के साथ अन्य फसलों की बुवाई शुरू की गई। इसमें पपीता, अमरूद, चीकू, संतरा, नींबू, सेब के साथ खरबूजा, मसूर, आलू, धनिया सहित अन्य फसलें करने लगा। उन्होंने बताया कि पपीता के 1800, अमरूद के 1100, चीकू 22, नींबू 150, संतरा 42 व सेव के 5 पौधे हैं। उन्होंने बताया कि समन्वित खेती पर पहले भी आत्मा की ओर से जिले में द्वितीय पुरस्कार 25 हजार रुपए मिल चुका है।

09/12/2023 | Kota | Page : 11
Source : https://epaper.patrika.com/