PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2022-December-2022)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	49	1575	798	2373
Rural youths	3	93	5	98
Extension functionaries	2	26	40	66
Sponsored Training	10	242	64	306
Vocational Training	2	0	52	52
Total	66	1936	959	2895

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	100	40	-
Pulses	135	54	-
Cereals	186	74.4	-
Vegetables	20	1.0	-
Other crops	75	3.75	-
Hybrid crops	-	-	-
Total	516	173.15	-
Livestock & Fisheries	50	-	50
Kitchen gardening	60	-	60
Button mushroom	30	-	30
Total	140	-	140
Grand Total	656	173.15	140

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	04	40	40
Livestock	01	10	10
Various enterprises	-	-	-
Total	05	50	50

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	528	55866
Other extension activities	6	481
Total	534	56347

5. Mobile Advisory Services

		Type of Messages						
Name of KVK	Message Type	Сгор	Livestoc k	Weather	Marke- ting	Aware -ness	Other enterpris e	Total

Text only		109		109
Voice only				
Voice & Text both				
Total Messages		109		109
Total farmers Benefitted	2	22600		22600

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	123.36	690276
Planting material (No.)	62595	685896
Bio-Products (kg)	1847.3	242995
Livestock Production (No.)	1520 & 2820 lit.	301873
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	Number	No. of Beneficiaries	Value Rs.
Soil (Crops)	726	620	21780
Soil (Orchards)	443	74	8860
Water	1000	866	25000
Plant	-	-	-
Total	2169	1560	55640

8. HRD and Publications

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

2

DETAIL REPORT OF APR-2022 <u>1. GENERAL INFORMATION ABOUT THE KVK</u>

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra-Hanumangarh-	Office	FAX 01499-	
I, Bhagatpura Road, SANGARIA	01499-	252702	kvksangariahmh@gmail.com
DisttHanumangarh (Raj.)	252702		

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

Address	Telephone		E mail
	Office	FAX	
Gramotthan vidyapeeth, Sangaria,	01499-	01499-	cosangariagv@gmail.com
Distt Hanumangarh (Raj.)	250026	250050	

Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact			
	Residence Mobile Email			
Dr. Anoop Kumar	01499-253512	09414874800	anoopkvkhmh@gmail.com	

1.4. Year of sanction: 1994

1.3.

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

SI.	Sanctioned	Name of the	Designation	Discipline	Pay	Present	Date of	Permanent	Catego	Mobile No.	Email id
NO.	post	Incumbent			level	basic (RS.)	Joining	/ emporary	ry)		
1	Senior Scientist cum Head	Dr. Anoop Kumar	Senior Scientist cum Head	Fisheries Science	13A	192900	10-11-2005	Permanent	OBC	9414874800	anoopkvkhmh@gmail.com
2	Scientist	Dr. Chandra Shekhar Sharma	SMS (Agro)	Agronomy	10	113700	18-04-1998	Permanent	Gen.	8432557123	drcssharma68@gmail.com drcssharma@rediffmail.com
3	Scientist	Sh. Umesh Kumar	SMS (PP)	Entomology	10	110400	11-05-1998	Permanent	OBC	9414535717	umeshkvk@gmail.com
4	Scientist	Sh. Mahavir Prasad Kaswan	SMS (Horti.)	Vegetable Crops	10	110400	25-09-1998	Permanent	OBC	9414577903	mahavir9.mahavir@gmail.c om
5	Scientist	Dr. Santosh Jhajharia	SMS (H.Sc.)	H.Sc. Ext.	10	87200	08-09-2008	Permanent	OBC	9462000090	santoshjhajhariakvk@gmail. com
6	Scientist	Dr. Mukesh Kumar	SMS (A.H.)	Livestock Production	10	71100	11-06-2014	Permanent	OBC	9928800416	drmukesh@hotmail.com
7	Scientist	Dr. Kuldeep Singh	SMS (Ag Ext)	Agri. Ext.	10	80000	16-06-2014	Permanent	OBC	9672133448	singhkuldeepkvk@gmail.co m
8	Scientist	Sh. Pardeep Kumar	SMS (Agromet)	Agro meteorology	10	59500	03-06-2019	Contractual	OBC	9461111006	Pradeepbhakar94611@gma il.com
9	Programme Assistant	Sh. Anand Prakash Singh	Programme Assistant (Farm Manager)	Agriculture	6	74300	22-04-1998	Permanent	Gen.	9413515815	anandprakash6@gmail.com
10	Programme Assistant	Sh. Ravinder Kumar Kulria	Programme Assistant (Computor)	Computer Science	6	74300	11-05-1998	Permanent	OBC	9461107775	ravikulria9@gmail.com ravikulria@ymail.com
11	Programme Assistant	Sh. Raghuveer Singh Nain	Programme Assistant (Training)	Agriculture	6	60400	16-11-2007	Permanent	OBC	9460026849	raghuveernain09@gmail
12	Assistant	Sh. Sandeep Kumar	Assistant	Accounts	6	58600	11-09-2008	Permanent	Gen.	9461036002	sandeepbansal172@gmail. com
13	Stenograph er	Vacant	Stenographer								
14	Agromet observer	Vacant	Agromet observer								
15	Driver	Sh. Subhash Chandra	Driver (Tractor)		3	38300	02-12-1996	Permanent	Gen.	9413432466	
16	Driver	Sh. Surendra Kumar	Driver (Jeep)		3	31100	11-09-2008	Permanent	Gen.	9315322635	
17	Supporting staff	Sh. Isar Ram	Watchman		1	31500	01-12-1996	Permanent	Gen.	9571531482	
18	Supporting staff	Sh. Vijay Singh	Farm attendant		1	30600	24-06-1998	Permanent	OBC	9460621549	
19	SRF	Sh. Ashvini Kumar	SRF		1				Gen.		
20	YP-1	Sh. Ashish Kumar	YP-1		1						

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1.	Under Crops	13.50
2.	Orchard/Agro-forestry	02.50
3.	High tech nursery	00.75
4.	IFS unit & Demonstration units	00.75
5.	Staff quarters	00.50
6.	Office Buildings	00.375
7.	Mela ground	00.375
8.	Others (Road etc)	00.50
	Total	20.00

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1.7. Infrastructural Development:

A) Buildings

		Source of	Source of Stage					
S.	Name of building	funding		Complete			Incomple	te
No.	Name of building		Completion	Plinth area	Expenditure	Starting	Plinth area	Status of
			Year	(Sq.m)	(Rs.in lacs)	year	(Sq.m)	construction
1.	Administrative Building	ICAR	1997-98	568	15.28			
2.	Farmers Hostel							
3.	Staff Quarters (6)	ICAR		400	25.95			
4.	Demonstration Units (1) Fisheries Demonstration Unit	ICAR	2001-02	0.25 h	5.25			
5	Fencing	ICAR	2005-06	3300m	8.10			
6	Rain Water harvesting system	Municipal Corporation	2018-19	40000 lit. capacity				
7	Threshing floor	ICAR	2004-05	265	1.00			
8	Farm godown	ICAR	2006-07	55.68	1.38			
9	Seed processing unit & Godown, Pipeline, Drip irrigation and raingun	State Agri. Deptt.	2007-08	227	17.24			
10	Ornamental hatchery	KVK	2015-16	80	-			
11	Hightech Nursery	State Agri. Deptt.	2013-14	3280	25.00			
12	Vermi compost	KVK	2004-05	40				
13	Azolla unit	KVK	2014-15	20				
14	Mushroom unit	KVK	2015-16	25q				
15	Soil & water testing Lab	ICAR	2004-05	35				
16	Plant Health clinic	ICAR	2010-11	38				
17	Animal lab.	KVK	2015-16	35				
18	Bee keeping unit	KVK	2007-08	4 boxes				
19	Nutritional garden	KVK	2014-15	-				
20	Crop museum	KVK	2009-10	0.5 ha				
21	Integrated Farming system	ICAR	2017	1.0 ha				
22	Technology unit	ICAR	2017	1 Room				
23	Goat unit	ICAR	2016-17	137.5 x 55 f	3.5			
24	Poultry unit	ICAR	2016-17	20 x 35 f	2.0			
25	ICT	ICAR	2017	35				

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motorcycle	2011	47,624	78060 kms.	Not Good
Bolero	2013	815366	174324 kms.	Not Good
Tractor	2018	595000	2660 hrs.	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
OHP	2002	17,840	Working
Slide Projector (1)	2002	24,415	Working

Microscope (5)	1997	11 160	Working
Computer (1)	2000	69.070	Working
Colour TV (1)	2000	13,900	Working
Camera (1)	2000	5,550	Not Working
Xerox (1)	2002	1,13,400	Working
AC (1)	2002	21,300	Working
AC (1)	2015	37,500	Working
Soil & water testing equipments for lab.	2004	8,30,668	Working
LCD with computer(1)	2007	1,25,000	Working
Handy camera (1)	2007	50,000	Working
Computer (1)	2007	39,000	Working
ERNET Hub (1)	2009	ICAR	Not Working
Plant Health Clinic	2011	10,00,000	Working
Mirdaparikshak (1)	2015	75,000	Working
OHP (1)	1997	3,600	Not working
Slide Projector (1)	1997	4,200	Not working
Mirdaparikshak (1)	2017	86,000	Working
AC(3)	2017	1,12,500	Working
Camera (1)	2017	32,500	Working
RO (1)	2017	32,065	Working
LCD Projector	2018	69,850	Working
Cellphone	2018	17,000	Working
Printer (1)	2018	15,900	Working
Computer (1)	2018	48,800	Working
New LED	2020	18,750	Working
Camera CCTV	2020	51,800	Working
Printer/Laptop/UPS	2020	84,600	Working
AC	2020	1,30,700	Working
Furniture	2020	1,81,260	Working
Projector	2020	45,026	Working
Lift Trolley	2021	2,22,812	Working

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

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2- MkW- ,I-ds- flag] funs'kd] vVkjh] dktjh ifjlj] tks/kiqjA

3- Jh n;kuUn dkdksfM;k] MhMh,e] ukckMZ] guqekux<+A

4- Jh fefyUn flag] mi funs'kd 'kL;] ,Vhlh] guqekux<+A

5- Jh lquhy dqduk] ofj"B 'kk[kk izcU/kd] ih,uch] laxfj;kA

6- MkW- ts-, I- cjkM+] ukFkokuk] laxfj;kA

7- Jh ts-,u- csuhoky] Mk;sDVj] Director, SDCMS, guqekux<+A

8- Jh ,e-vkj- tk[kM+] QhYM eSustj] bQ~dks] guqekux<+A

9- Jh v{k; f?kaVkyk] fo"k; fo'ks"kK] —f"k foKku dsUnz] uksgjA

10- MkW- ,-,I- iwfu;k] Isokfuo`r ifj;kstuk vf/kdkjh] 12 ds,IMh] laxfj;kA

11- Jh lqHkk"k ewaM+] ,I,Q,] bQ~dks] guqekux<+A

12- Jh t;izdk'k] lgk;d d`f"k vf/kdkjh ¼m|ku foHkkx½] laxfj;kA

13- Jherh lqjsUnz dkSj] d`"kd efgyk] laxfj;kA

14- Jherh ijethr dkSj] d`"kd efgykA

15- Jh uhydey dM+okljk] d`"kd

16- Jh j.kthr pkgj] d`"kd 17- Jh lanhi pkgi] d`"kd 18- Jh gugeku jke d`"kd 19- MkW- vuqi dqekj] ofj"B oSKkfud ,oa foHkkxk/;{k] ---f"k foKku dsUnz] laxfj;kA 20- MkW- pUnz'ks[kj 'kekZ] fo"k; fo'ks"kK] —f"k foKku dsUnz] laxfj;kA 21-- Jh mes'k dqekj] fo"k; fo'ks"kK] —f"k foKku dsUnz] laxfj;kA 22- Jh egkohi dLok;] fo"k; fo'ks"kK] —f"k foKku dsUnz] laxfj;kA 23- Jherh larks"k >k>fM+:k] fo"k: fo'ks"kK] —f"k foKku dsUnz] laxfi:kA 24- MkW- eqds'k dqekj] fo"k; fo'ks"kK] —f"k foKku dsUnz] laxfj;kA 25- Jh iznhi dgeki] ekSle fo'ks"kK] —f"k foKku dsUnz] laxfi:kA 26- Jh vkuUn izdk'k] dk;ZØe lgk;d] —f"k foKku dsUnz] laxfj;kA 27- Jh jfoUnz dqvfM+;k] dk;ZØe lqk;d] —f"k foKku dsUnz] laxfj;kA 28- Jh IUnhi dqekj] —f"k foKku dsUnz] laxfj;kA 29- Jh uhjt dqekj] —f"k foKku dsUnz] laxfj;kA 30- Jh vk'kh"k dqekj] —f"k foKku dsUnz] laxfj;kA 31- Jh lqHkk"k pUnz] —f"k foKku dsUnz] laxfj;kA 32- Jh lqisUnz dqeki] —f"k foKku dsUnz] laxfi;kA 33- Jh bZlj jke] —f"k foKku dsUnz] laxfj;kA 34- Jh fot; flag] —f"k foKku dsUnz] laxfj;kA

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35- Jh jkeflag
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blds ckn MkW- vuwi dqekj us o"kZ 2022 dk izxfr izfrosnu o vkxkeh o"kZ 2023 dh dk;Z;kstuk izLrqr dhA rnqijkUr fo"k; okj oSKkfudksa us vius&vius dk;Z dh izxfr o dk;Z;kstuk izLrqr dhA

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Jh n;kuUn dkdksfM;k us crk;k fd ukckMZ ,Qihvks ds ek/;e ls mlls tqM+us okys fdlkuksa ds fy;s izf'k{k.k lEiUu djokrk gSA ty d`f"k esa #fp j[kus okys d`"kdksa ds fy;s cIFA esa ,d izf'k{k.k djok;k tkuk gSA vr% bPNqd eRL; ikyd vkSj eRL; ikyu esa jkstxkj ryk'kus okys ;qok viuk uke ukckMZ guqekux<+ dks fHktok;saA

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izxfr'khy fdlku j.kthr pkgj ds iz'u dk tokc nsrs gq;s iatkc uS'kuy cSad laxfj;k ds ofj"B izcU/kd Jh lquhy dqduk us crk;k fd cSad eNyh ikyu o i'kqikyu ij Hkh fdlku dzsfMV dkMZ miyC/k djkrk gSA blds fy;s vki cSad esa IEidZ dj ldrs gSaA bl ij Jh lq[kjkt flag lyokjk us dgk fd mijksDr ij cSad fdlku dzsfMV dkMZ cukrs le; fdlkuksa dks le>k;s fd bl jkf'k mi;ksx mDr O;olk;ksa dks IEcy iznku djus ds fy;s gh fd;k tkuk pkfg;sA

izxfr'khy d`"kd Jh uhydey ds iz'u ds mrj esa Jh n;kuUn dkdksfM;k us dgk fd guqekux<+ ftys esa fdlkuksa dh ykxr dks de djus ds fy;s ,Qihvks ewoesUV ls tksM+dj dLVe gk;fjax ISUVj ls tksM+sa o fdUukS ckxksa esa dVkbZ&NaVkbZ ij izf'k{k.k djok;saA bl ij Jh lyokjk th us dgk fd izf'k{k.k esa ukckMZ ds vf/kdkfj;ksa dks cqykdj ;kstukvksa dh tkudkjh fdlkuksa dks miyC/k djkosaA

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izxfr'khy fdlku lUnhi pkgj us fdUuks esafnlEcj&tuojh ds eghus esa vkus okyh Qy fxjus dh tkudkjh fdlkuksa dks nh tk;s lkFk gh blds cpko ds mik; Hkh crk;s tkosaA

Jh n;kuUn dkdksfM;k rFkk Jh lquhy dqduk us dgk fd Lo;a lgk;rk lewg dks izf'k{k.k djkus ds ckn lwph cSad dks miyC/k djkosa ftlls mudks vkfFkZd lgk;rk nsus esa cSad dks vklkuh gksA

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d`f"k foKku dsUnz dh Ms;jh esa lkghoky uLy dk lkaM j[ksaA Lo;a ds QkeZ o fdlkuksa ds ;gka eksfjaxk dh [ksrh djok;saA tyok;qoh; dkjdksa ds IEca/k esa cdjh ikyd o HksM+ ikydksa ls IEidZ djsaA

,Qihvks esa T;knk ls T;knk fdlkuksa dks tksM+k tk;sA

mifuns'kd 'kL; Jh fefyUn flag us d`f"k foKku dsUnz ds dk;ksZa dh ljkguk djrs gq;s dgk fd Qly laxzgky; esa ck;ks QVhZQkbZM fdLeksa dks 'kkfey djsa rFkk mudk foLr`r fooj.k Hkh miyC/k djkosaA chtksRiknu dk;Zdze esa cht dh iSfdax LFkkuh; Hkwfe eki bdkbZ ds vk/kkj ij dh tkosA Qly laxzgky; ds vk/kkj ij vfxze iafDr izn'kZu ds ifj.kke ds vkadMsa iznf'kZr djsa rFkk fdlkuksa dks uSuks QVhZykbZj ds mi;ksx ds ckjs esa tkudkjh miyC/k djkosaA

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ACTION TAKEN REPORT (SAC 22.09.2021)

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* Attach a copy of SAC proceedings along with list of participants 2. DETAILS OF DISTRICT (2022)

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

S. No	Farming system/enterprise
1	Agriculture-Animal Husbandry
2	Agriculture-Animal husbandry-Horticulture
3.	Agriculture-Animal husbandry-Horticulture- Aquaculture
4.	Agriculture-Animal husbandry-Horticulture- Aquaculture-Mushroom
5.	Agriculture-Animal husbandry-Horticulture- Aquaculture-Beekeeping
6.	Agriculture-Animal husbandry-Horticulture- Aquaculture-Poultry

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

S. No	Agro-climatic Zone	Characteristics
1	Zone 1b	It Zone lies between 20 ^o N to 30 ^o N latitude and 74 ^o to 75 ^o 30' longitudes. It
	(Irrigated North-Western Plains)	is bounded on the North by Punjab, on the South by Bikaner and Churu, on
		the East by Haryana and on the West by Pakistan. In Hanumangarh District,
		we find hot summer, cool winter, unreliable rainfall and great variation in the
		temperature (2°C in Jan. to 48.9°C in June). The rainfall mostly restricted to
		rainy season. The monsoon normally comes in the first week of the July and
		recedes in the last week of September.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Canal irrigated light & medium soil	Sangaria& Hanumangarh tehsil sandy loam to loamy sand having good drainage property & calcasious sub soil. Organic matter or nitrogen level low. P_2O_5 low to medium & K ₂ O medium to high. Ground water is saline.	353514
2	Ghaghar flood prone soil	Tibbi& Hanumangarh tehsil loam to salty loam soil, Saline, alkaline problematic soils. Paddy, Wheat, Mustard & Gram.	21790
3	Rain Fed Area	Nohar& Bhadra tehsil fine sand to loam sand soil, sand dumes found in the area. Guar, Bajra, kharif pulses Gram, Taramira, Barley & Wheat crops.	422077
4	Salt affected soil	Tibbi, Rawatsar, Nohar and Bhadra. Sandy and alkaline soil. Saline ground water, not suitable for irrigation, Paddy wheat mustard, Toria and fodder crops.	15440

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
Rabi (2021-22)				
1	Wheat	206	853	41.43
2	Barley	8	26	34.13
3	Gram	236	149	6.31
4	Mustard	247	430	17.43
5	Tarameera	40	7	1.62
S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
Kharif (2022)				

1	Cotton	204644	892248 bales	4.36 bales
2	Paddy	34277	222801	65.00
3	Groundnut	13161	17373	13.20
4	Moongbean	101442	74053	7.30
5	Mothbean	49029	10296	2.10
6	Bajra	20867	17946	8.60
7	Clusterbean	329532	222874	6.93
8	Til	3154	1072	340

Source: Office of Deputy Director Ag. Hanumangarh (Raj.).

2.5. Weather data

Month	Rainfall	Temperature ⁰ C		Relative Hu	umidity (%)
	(mm)	Maximum	Minimum	Maximum	Minimum
January 2022	75	23.2	2.1	100	31
February 2022	1	26.3	2.1	100	24
March 2022	0	41.7	8.2	100	9
April 2022	0.5	46	13.6	83	6
May 2022	21.5	47.9	19.3	100	5
June 2022	17.5	46.1	22.8	100	5
July 2022	503	40.8	23.7	100	40
August 2022	145	38.8	20.5	100	35
September 2022	41.4	39.7	21.3	100	31
October 2022	0	38.4	13.4	98	12
November 2022	0	35.1	6.5	97	13
December 2022	0	27.4	3.7	100	23
Total	804.9				

Source- DAMU, Hanumangarh-I

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district 2021

Category	Population	Category	Population
Cattle	544264	Rabbits	973
Cross breed/Exotic	149963	Poultry	1,36,427
Indigenous	394301	Backyard	59,223
Buffalo	302203	Poultry farm	77,207
Sheep	170021	Horse	1,223
Goats	175745	Mules	407
Pigs	969	Camel	31,226
Horse	1223	Donkey	3,370
Mules	407	-	-

Source - Department of Animal Science, Hanumangarh

S.No.	Animal Product	Production
1	Milk (000 Tones)	17845.24
2	Egg (Lakhs Nos)	12925.00
3	Meat (000 Tones)	198.85
4	Wool (000 Kg)	1228.14

Source - Department of Animal Science, Hanumangarh

Year	Fish seed Production (Fry in Lakh)	Fish Production (MT)	Income (Lakh)
2016-17	500	2967.55	75.64
2017-18	800	2905.77	84.71
2018-19	900	2270.00	94.88
2019-20	800	2050.25	81.25
2020-21	850	2165.48	87.26
2021-22			

Source – Department of Fisheries, Hanumangarh

2.7 Details of Operational area / Villages (2022)

			<u> </u>			
S.No.	Taluk	Taluk Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas

13

						17
1	Pilibanga	Pilibanga	Amar Singh wala, Sahjipura, Goluwala, Ayalki, Nandewalidhani, Fattewali, 3 TKW, 23 STG	Cotton, Guar, Moong, Wheat, Gram & Mustard, Dairy, Poultry and fisheries	Unemployment Lack of knowledge about scientific cultivation. Least use of bio pesticide products Lack of diversification in agriculture Lack of knowledge about climate change. Lack of awareness about water management Lack of knowledge about nutritional value of soil	 To increase the productivity of major field crops and encouraging farmers for sustainable agriculture through natural farming system using compost, FYM and moisture conservation technology. Minimum budget Natural Farming. Encouraging farmers for seed production to obtain good quality seed. To popularize Integrated Pest Management especially stress on seed
2	Hanumangarh	Hanumangarh	Pakka Sarna, Banwala, Hirnawali, Fatehgarh, Gurusar, Makkasar, Jandawali, Dhankawali, Pucca Bhadva, Munda, Kohla, Gurusar			
3	Sangaria	Sangaria	Indergarh, Bhakrawali, Santpura, Nagrana, Singhpura, MorjanSekhon, Chak Hirasinghwala, Lambi Dhab, Chak Pratapnagar, JandwalaSikhan			
4	Tibbi	Tibbi	Kulchander, Surewala, Basir, Talwara Jhil, Naiwala, Saliwala, Saharani, Sabuana, Mirzawali Mer, Tibbi, Mastawali, Meharwala			

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Cotton, Guar, Moong, Moth, Wheat, Gram, Mustard, Barley	To increase the productivity of major field crops and encouraging farmers for sustainable agriculture through natural farming system using compost, FYM and moisture conservation technology. Minimum budget Natural Farming.
Cotton, Guar, Moong, Moth, Wheat, Gram, Mustard, Barley	To popularize Integrated Pest Management especially stress on seed treatment.
Seed production	Encouraging farmers for seed production to obtain good quality seed.
Beekeeping & Mushroom cultivation	To motivate the farmers for income generation through Bee- keeping and mushroom cultivation.
Kinno, Malta, Pomegranate, Aonla, Ber, Carrot, Methi, Onion, Muskmelon, Garlic,	To extend the area under fruit orchards and techniques in nursery rising and its proper management.
Fish Farming	To motivate the farmers for fish farming and fish seed production.
Animal Production	To motivate the farmers, youths and farm women for dairy, goat, poultry and pig farming for self-employment and income generation.
Income generating activities for farm women & rural youth	Introducing employment generation activities for farm women & Rural youth like fruit and vegetable preservation, tailoring, embroidery, soft toys making, production of bio control agents & biopesticides etc.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2021

OFT <mark>(Technology Assessment)</mark>			FLD (Oilseed	<mark>s, Pulses, Cotton, Ot</mark>	her Crops	<mark>/Enterprises)</mark>	
1					2		
Number of OFTs Total no. of Trials			Area in ha Number of Farme			r of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
09	05	90	50	150.	173.15	500	516
				140 nos.	140 nos.	140	140

Training (including sponsored, vocational and other trainings **Extension Activities** carried under Rainwater Harvesting Unit) 4 3 Number of Courses Number of Number of Number of Participants activities participants **Clientele** Targets Achievement Target Achieveme Targets Achieve Targets Achiev ment nt ement S 2500 **Farmers** 50 49 2373 500 534 50000 56347 Rural youth 5 2 3 200 98 2 Extn. Functionaries 60 66 **Sponsored** 350 306 10 10 training Voccational 2 2 52 50 training

Seed Production (Qtl.)			Planting material (Nos.)			
	5 6			6		
Target	TargetAchievementDistributed to no. of farmers		Target	Achievement	Distributed to no. of farmers	
125	123.36	636	60000	62595	2433	

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
	Cotton	Foliar application of 1% Magnesium sulphate in cotton crop	01	10
Integrated Nutrient Management	Kinnow	Foliar spray of nutrients at fruit developing stage in kinnow	01	10
	Onion	Foliar spray of micronutrients at bulb developing stage in onion	01	10
Varietal Evaluation				
Integrated Pest Management	Kinnow	Sodium Hypochlorite 5% for gummosis management in kinnow	01	10
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				

Total	04	40	
Others (Pl. specify)			

16

Summary of technologies assessed under **livestock** by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management	Goatry	Balance feed + 50% moringa leaves (according to body weight).	01	10
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total			01	10

Summary of technologies assessed under various enterprises by KVKs

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

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

PEST AND DISEASE MANAGEMENT

1.

Problem definition: Gummosis management in Kinnow.

Technology Assessed: Sodium Hypochlorite 5% for gummosis management in kinnow.

Kinnow is an important fruit crop of Hanumangarh district. The plants mainly suffer from gummosis (Foot rot) caused by *Phytophthora polmivora*. Phytophthora is most destructive pathogen of Kinnow plant and responsible for significant economic losses to orchardist. To combat this problem, we frame a work on farm trial and found that on the management of gummosis in kinnow. Farmers generally used Paste the solution of Ridomil MZ @ 2g + 100 ml linseed oil on infected trunk and branches and drenching of Redomil MZ @25 gm per plant twice in a year but is not effective to control this disease so, we design to conduct OFT on Gummosis management. Results showed that the spray of Sodium Hypochlorite 5% was found to be more effective than Ridomil MZ in the management of gummosis disease.

Table Efficacy of different pesticides for Gummosis management in Kinnow.

Technology Option	No. of trials	Recovery from trunk lesion (%)	Reduction in Phytophthora propagule	Yield (q/ha)	Spray cost per plant (Rs.)	B:C Ratio
			density (%)			
T_1 - Paste of Ridomil MZ @ 2g + 100 ml	10	57.36	81.23	347	118.00	4.05
linseed oil on infected trunk and branches						
and drenching of Redomil MZ @25 gm						
per plant twice in a year. (Farmer's						
practice)						

					17
T ₂ - Spray of Sodium Hypochlorite 5% @ $50 \text{ ml}/10 \text{ liter water on affected trunk & }$	68.89	87.85	366	34.95	5.25
branches twice in a year					

INTEGRATED NUTRIENT MANAGEMENT

2.

Problem definition: Low yield of cotton.

Technology Assessed: Foliar application of 1% Magnesium sulphate in cotton crop.

Bt cotton is grown in 67% of the total cotton growing area of this district. Sometimes the leaves turn red at the full bloom and boll development stages in cotton. Due to this the process of photosynthesis is interrupted and the leaves of plants do not produce food. As a result, the development of bolls does not occur smoothly and production is reduced.

The study found that the reddening of cotton leaves (The purplish red leaves with green veins) is due to magnesium deficiency. If the farmer does two sprays of 1% solution of Magnesium Sulphate @ 250 litres per hectare at 15 days interval during full bloom and boll development stages, then magnesium deficiency in the cotton crop can be overcome. Therefore, an On Farm Trial was conducted on "Nutrient management in cotton". and it was found that the crop sprayed with 1% Magnesium sulphate (1 kg in 100 litres of water @ 250 litres per hectare) at 15 days interval during full bloom and boll development stages) did not have reddening of leaves and yield increased by 19.59% as compared to the control.

Table: Performance of varieties in reference of yield and income of Cotton.

Technology Option	No. of trials	Yield (q/ha)	Increase in Yield (%)	Net Returns (Rs./ha)	B:C Ratio
No use of Magnesium Sulphate. (Control)	10	11.94		51500	2.03
Two sprays of 1% magnesium sulphate (Assessment)		14.28	19.59	68626	2.30

3.

Problem definition: Poor quality of fruit & low yield.

Technology Assessed: Foliar spray of nutrients at fruit developing stage in kinnow.

Kinnow, a mandarin hybrid (citrus nobilis lourx citrus deliciosatan) has become an important variety in north India occupying a major part of area under cultivation of fruit crops. It has assumed a special economics importance and export demand due to its high juice content, special flavor and as a rich source of vitamin C. It is a wellestablished fact that deficiency of nutrient deteriorates vegetative growth quality and production of fruit and causes heavy flower and fruit drops which resulted in production of poor quality fruit coupled with yield losses.

Table Impact of foliar spray of nutrient on fruit quality, size and yield of kinnow

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Net Returns (Rs./ha)	BC Ratio
T ₁ -Spray of micronutrients (6 elements) (Farmers		276.8		359690	5.6
Practice)					
T ₂ -Three times spray of nutrients in June to August	10	305.1	10.2	463335	4.7
$(ZnSO_4 \ 0.3\% + K_2SO_4 \ 0.8\% + MgSO_4 \ 0.2\% + MnSO_4)$					
0.2% + Urea 0.15%) (Assessment)					

Foliar spray of nutrients at fruit developing stage is improved the quality & size of fruits which gave more B:C Ratio.

4.

Problem definition: Poor quality & low yield of onion.

Technology Assessed: Foliar spray of micronutrients at bulb developing stage in onion.

Onion is a cash crop the grown mainly in summer season in north India. It is very important in cooking. Hence it is called the Queen of kitchen. It is valued for in distinct pungent flavour. Nutrients play a major role in production. Nutrients normally applied in soil at primary stage of crops by the farmers. But foliar spray of micronutrients at bulb stage may play a major role in increase the yield.

Table Impact of foliar spray of nutrient on fruit quality, size and yield of onion

Technology Option				No. of	Yield	Increase in	Net Returns	BC
				trials	(q/ha)	yield (%)	(Rs./ha)	Ratio
T ₁ -No us Practice)	e of	micronutrients	(Farmers	10	184.4		88388	1.9

							-
T ₂ -Foliar	spray	of	micronutrients	198.9	7.9	100888	2.0
(Zn+Fe+Mn+Cu+Bo+Mo) (Assessment)							

18

Foliar spray of micronutrient at bulb developing stage is improved the quality & size of bulbs which gave more B:C Ratio.

LIVESTOCK ENTERPRISES

5.

Problem definition: Poor economics of male goat rearing for meat purpose.

Technology Assessed: Balance feed + 50% moringa leaves (according to body weight). (1st year 2021-22)

Goat farmers of the district are generally rear male goat for meat purpose. They generally allow to feed them legume green fodder, Dry fodder and concentrate which having high amount of pulses for proper muscle development in male goats. Higher amount of pulses increases cost of production. Resulting B:C ratio decreases. Growing male goats require high protein in their diet for development of muscles. Retarded growth in male goat due to low protein in diet. Moringa leaves that have 18.23% CP, and 9.6 MJ/kg energy which improve the growth performance in goats. Feeding Moringa leaves can increase goat body weight, improve the digestion and absorption of nutrients to be more effective.

Table Performance of moringa leaves as source of protein.

Technology Option	No. of trials	Body wt. (kg/ani.)	Increase in body wt. (%)	Gross cost (Rs./ani.)	Net Returns (Rs./ha)	BC Ratio
T ₁ - Dry fodder+ Green fodder + concentrate (Farmer's practice)		40.34		5226.35	8892.65	2.7
T ₂ - Balance feed + 50% moringa leaves (according to body weight) (Assessment)	10	42.20	4.61	5073.18	9696.83	2.9

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021-22 and recommended for large scale adoption in the district

				Details of	Horizonta	I spread of te	echnology
S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	popularization methods suggested to the Extension system	No of Villages	No of Farmers	Area in ha
1	Moong	Integrated Crop Management	Package of practices (NFSM)		45	126	2162
2	Sesame	Integrated Crop Management	Package of practices (NFSM)		11	330	765
3	Mustard	Integrated Crop Management	Package of practices (NFSM)		87	1331	5220
4	Chickpea	Integrated Crop Management	Package of practices (NFSM)		92	1012	1454
5	Chickpea	Integrated Pest Management	Use of Bio-agent (Trichoderma)		24	105	290
6	Oat	Fodder production	Full package	Training, Field	12	422	25
7	Broccoli	Exotic vegetables	Production technology	Day, Film Show,	11	135	30
8	Cattle	Feed Management	Use of by pass protein with mineral mixture	Print media, Kisan Ghoshthi, Kisan	28	210	318 animals
9	Cattle	Disease management	Anestrous in lactating buffalo	Mela, Radio Talks,	22	156	182 animals
10	Poultry	Backyard Poultry	Popularization of RIR	TV Show	24	312	312 units
11	Composite Fish culture	Integrated fish farming	Popularise fish culture in water storage tank		18	30	30 unit
12	Home Science	Household food security of kitchen gardening and nutrition gardening	Nutritional Kitchen garden		20	142	112 units
13	Mushroom	Mushroom production	Button mushroom production technology		12	35	35 units

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

b. Details of FLDs implemented during 2022 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Oilseeds: -

SI. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		Nc de	No. of farmers/ demonstration		Reasons for shortfall in achievement
				-	Proposed	Actual	SC/ST	Others	Total	
1	Mustard	Integrated Crop	Package of	Rabi	20	20	8	42	50	NA
		Management	practices	2021-22						
2	Sesame	Integrated Crop	Package of	Kharif	20	20	11	39	50	NA

	Management	practices	2022			

Details of farming situation

		nos	iing iion rrig	ype	Status of soil			sno	e e	est e	ona fall n)	of `s
	Crop	Seat	Farm situat (RF/I ate	Soil t	N	Р	к	Previ	Sow dat	Harv dat	Seas I rain (mr	No. rair day
	Mustard	Rabi 2021-	Irrigated	Sandy loam	Low	Low-medium	High	Clusterbean,	10-10.2021 t	o 24.3.2022 to	102	5
		22						Mungbean, A. cotton,	25.10.2021	3.4.2022		
								Fellow, Sesame				
	Sesame	Kharif 2022	Irrigated	Sandy loam	Low	Low-medium	High	Wheat, Mustard,	02.07.2022 t	o13.10.2022 to	316	16
							_	Barley	20.07.2022	20.10.2022		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Development of frost resistant bold seeded mustard varieties.
2.	Need for research on planting space in mustard crop.
3.	Strong strategies should be developled for sclerotinia stem rot disease in mustard.
4.	Evaluation of some effective herbicides to control of weeds in mustard.
5.	Need for research on phyllody resistant variety of sesame.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers were satisfied with the performance of RH-725 variety of mustard in reference of seed yield.
2	Good response of basal application of fertilizers.
3	Farmers were satisfied with the performance of RT-351 variety of sesame in reference of seed yield.

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	7	23.02.2022, 04.03.2022, 04.03.2022, 07.03.2022, 07.03.2022,	201	
			07.10.2022 & 07.10.2022		
2	Farmers Training	2	03.10.2021 & 12.10.2021	79	
3	Media coverage	4	24.02.2022, 05.03.2022, 08.03.2022 & 08.10.2022	Not fixed	

Pulses:-

SI.	Crop	Thematic area	Technology	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in
NO.			Demonstrateu		Proposed	Actual	SC/ST	Others	Total	achievement
1	Chickpea	Integrated Crop	Package of	Rabi	20	20	01	49	50	NA

		Management	practices	2021-22						
2	Chickpea	Integrated Disease	Bio-agent	Rabi	04	04	01	09	10	NA
		Management	(Trichoderma)	2021-22						
3	Moong	Integrated Crop	Package of	Kharif	30	30	07	68	75	NA
		Management	practices	2022						

Details of farming situation

	u	on ed	be	Status of soil			Sn	g	st	na all)	if ^
Crop	Seaso	Farmir situati (Irrigat	Soil ty	N	Р	к	Previo crop	Sowir date	Harve date	Seaso I rainft (mm	No. c rain) days
Chickpea	Rabi 2021-22	Irrigated	Sandy	Low	Low-	High	Cotton, Clusterbean, Mungbear	n,16.10.2021 to	o31.03.2022 to	102	5
			loam		medium		fellow, Pearlmillet, G.nut, Paddy	16.11.2021	16.04.2022		
Chickpea	Rabi 2021-22	Irrigated	Sandy	Low	Low-	High	Clusterbean, Mungbean, fellow	20.10.2021 to	01.04.2022 to	102	5
			loam		medium			10.11.2021	16.04.2022		
Moong	Kharif 2022	Irrigated	Sandy	Low	Low-	High	Wheat, Mustard, Barly	05.07.2022 to	21.09.2022 to	316	16
		_	loam		medium	_		20.07.2022	30.09.2022		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Recommended herbicides are not effective for control of pyaji (Asphodelus tenuifolius) in gram crop. Therefore,
	there is a need for research on effective herbicides to control pyaji in gram crop.
2	Need of varieties, who have tolerance or resistance to yellow mosaic virus and suitable for rain fed areas in moong.
3	Need of research on bio pesticides to control white fly & pod borer.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Good response of GNG 2171 variety of gram.
2	Good response of basal application of fertilizers & IPM practices.
3	Good response of soil treatment by Trichoderma in gram crop.
4	Good response of MH 421 variety of Mungbean. Good response of basal application of fertilizers.
5	Good results of bio-pesticides to management of white fly & pod borer in mungbean.
6	Trichoderma is easily available in market. Farmers can be preparing at home.

Extension and Training activities under FLD

SI. No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	5	23.03.2022, 29.03.2022, 29.03.2022, 23.09.2022 & 24.09.2022	133	
2	Media coverage	2	24.03.2022 & 30.03.2022	Not fixed	

Other crops: -

SI.	Cron	Thomatic area	Technology	Season and	Area	(ha)	No. of farmers/ Demonstration			Reasons for	
No.	Crop	i nematic area	Demonstrated	year	Proposed	Actual	SC/ST	Others	Total	achievement	
1	Oat (F)	Fodder production	Full package	Rabi 2021-22	3.75	3.75	75	0	75	NA	
2	Wheat	Integrated Crop Management	Full package	Rabi 202122	66	66	165	0	165	NA	

Details of farming situation

	LO LO	ng on rig	pe		Status of soil		sn	DC a	st	na all	of ^
Crop	Seaso	Farmii situati (RF/Ir ated	Soil ty	Ν	Р	к	Previo crop	Sowir date	Harve date	Seaso I rainfi (mm	No. c rain) days
Oat (F)	Rabi 2021-22	Irrigated	Sandy	Low	Low-medium	High	Clusterbean, fellow,	10.10.2020 to	Last week of January	102	5
		_	loam			-	sorghum	15.11.2020	to last week of March		
Wheat	Rabi 2021-22	Irrigated	Sandy	Low	Low-medium	High	A. Cotton, Clusterbean,	05.11.2021 to	10.04.2022 to	102	5
		-	loam			-	Mungbean	30.11.2021	22.04.2022		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Need of new varieties of Oat.
2.	Need to research on micro nutrients in wheat crop.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Good response of JHO 822 in reference of green fodder production.

Horticulture crops:-

SI.	Crop	Thematic area	Technology	Season and year	Area (ha)	No. Den	of farme	Reasons for shortfall in	
NO.			Demonstrateu	anu year	Proposed	Actual	SC/ST	Others	Total	achievement
1	Broccoli	Exotic vegetables	New vegetable	Rabi	0.5	0.5	0	10	10	NA
			crop	2021-22						
2	Onion	Production of Low volume	Introduction of	Kharif	0.5	0.5	0	10	10	NA
		& high value crop	Kharif Onion	2022						

Details of farming situation

Crop	, in o r	o ≔ + >	Status of soil	. ≥ ⊂ ססמ	ם ד מ ת < ר	a	<u>ר מי כ</u>
							L

				N	Р	к					
Broccoli	Rabi 2021-22	Irrigated	Sandy	Low	Low-	High	Cotton, Guar, Cucurbits & Okra	October 2021	January to	91.5	5
		_	loam		medium				February 2022		
Onion	Kharif 2022	Irrigated	Sandy	Low	Low-	High	Wheat, Cauliflower, Cabbage &	August 2022	December 2022	186.5	8
		_	loam		medium		Potato	-			

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Heat tolerant variety should be developed.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Green magic is a high yielding variety.
2	AL-883 is a high yielding variety and suitable for cultivation in kharif season.

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

0	Thomas in Arrow	technology	Variety	No. of	Area		Yie	ld (q/ha)		% Increase	Econor	nics of de	monstrati	on (Rs./ha)		Economi (R	cs of che s./ha)	ck
Crop	I nematic Area	demonstrated	variety	Farmers	(ha)		Demo		Check	heck in yield G		Gross	Net	BCR	Gross	Gross	Net	BCR
						High	LOW	Average			Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Mustard	Integrated Crop management	Full package	RH-725	50	20	23.96	19.05	21.31	18.06	18.00	29254	138515	109261	4.73	27431	117390	89959	4.28
Sesame	Integrated Crop management	Full package	RT-351	50	20	11.3	7.8	9.58	7.25	32.14	22856	110170	87314	4.82	19360	83375	64015	4.30

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop		technology	N	No. of	Area		Yiel	d (q/ha)		% Increase	Eco	nomics of (Rs	demonstr ./ha)	ation	l	Economic (Rs	s of chec ./ha)	k
Crop	I nematic Area	demonstrate d	variety	Farmers	(ha)	Hiah	Demo	Average	Check	in yield	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						···ə··		Average			0031	Return	Return	(100)	0030	Ketuini	Return	(140)
Chickpea	Integrated Crop management	Full package	GNG-2171	50	20	17.40	12.80	14.92	12.61	18.32	30400	71616	41216	2.35	27497	60528	33031	2.20
Trichoderma	Integrated Pest Management	Bio-agent	GNG-1581	10	04	16.25	10.13	14.56	12.49	16.57	29971	92950	62979	3.10	28471	82250	52779	2.90
Greengram	Integrated Crop	Full package	MH-1142	50	20	10.54	7.05	8.38	6.64	26.20	17492	54470	36528	3.11	16148	43160	27012	2.67
	management		MH-421	25	10	10.32	7.10	8.06	6.64	21.38	17492	52390	34448	2.99	16148	43160	27012	2.67

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

**** BCR= GROSS RETURN/GROSS COST**

FLD on Other crops

Category &	Thematic	Name of the	No. of	Area		Yiel	ld (q/ha)		% Change	Ot Paran	her neters	Econ	omics of do (Rs./h	emonstrati a)	on	Econo	omics of c	heck (Rs	./ha)
Crop	Area	technology	Farmers	(ha)		Demo)	Check	in Yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
Cereals					High	Low	Average					Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Wheat	Integrated	Full package	83	33.2	40.50	29.50	36.24	32.64	11.03	-	-	26898	101584	74686	3.77	26517	91281	64764	3.44
	Crop		82	32.8	40.00	29.00	34.08	32.64	4.41	-	-	26898	95358	68460	3.55	26517	91281	64764	3.44
	management		21	8.4	38.00	29.20	33.88	32.64	3.80	-	-	26698	94600	67902	3.54	26517	91281	64764	3.44
Fodder crops																			
Oat (F)	Fodder production	Full package	75	3.75	690	550	644	582	10.65	-	-	52488	161000	108512	3.07	51388	145500	94112	2.83
Vegetables										-	-								
Broccoli	Exotic vegetables	New Vegetable crop	10	0.5	182.0	132.5	155.9	-	-	-	-	67339	265030	197691	3.94	-	-	-	-
Onion	Low volume & high value crop	Introduction of Kharif Onion	10	0.5	302.5	240.2	276.2	-	-	-	-	108440	220960	112516	2.04	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the	No. of	No.of Units	Avarage milk production		%	Other pa	rameter	Econom	ics of dem	onstratio	n (Rs.)) Economics of check				
		technology	Farmer	(Animal/	(lit/day	/Ani.)	change							(Rs.)				
		demonstrated		Poultry/	Demo	Check	in major	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
				Birds, etc)			parameter			Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)	
Cattle	Nutrition	Use of probiotic in	20	20	13.85	12.38	11.87	-	-	205.5	498.6	293.1	2.43	199.4	433.3	233.9	2.17	
	Management	cross breed cattle																
Buffalo	Disease	Use of chelated	20	20	14.81	12.67	16.89	-	-	347.0	829.36	482.36	2.39	328.0	696.85	368.85	2.12	
	management	mineral mixture in																
		buffalo																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic	Name of the	No. of	No.of	Major parame production	ters (Av. Fish in kg/unit)	% change	Other pa	rameter	Econor	nics of der	nonstratio	n (Rs.)	E	Economics (Rs	s of check s.)	
	area	demonstrated	Farmer	units	Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Composite fish culture	Integrated fish farming	Popularise fish culture in water storage tank	10	10 (0.2 ha each)	1027.5	-	-	-	-	52200	113025	60825	2.17	-	-	-	-

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology	No. of	No.of	Major para	ameters	% change	Other p	arameter	Econom	ics of dem	onstration	(Rs.) or		Economic	s of check	
	demonstrated	Farmer	units							Rs./	unit			(Rs.) or	Rs./unit	
				Demo	Check	parameter	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
									Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Button Mushroom	Production Technology	30	30	165	-	-	-	-	5850	24750	18900	4.23	-	-	-	-

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology	No. of Farmer	No. of Units	Yield	l (Kg)	% change	Other p	arameters	Ecor	nomics of o (Rs./	lemonstrat ha)	ion	E	conomics (Rs./h	of check na)	
		demonstrate d			Demons ration	Check	in yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Home Science	Household food security of kitchen gardnig and nutrition gardning	Nutritional kitchen garden	60	60	226.8	105.7	114.57	Maximu m	Least	916	7894	6978	8.62	458	2256	1798	4.93

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

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of Participants									
	courses		Others			SC/ST		6	Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Record Management										
Cropping Systems										
Crop Diversification										
Integrated Farming	1	17	0	17	3	9	12	20	9	29
Micro Irrigation/irrigation	1	17	0	17	5	,	12	20		2)
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management	1	18	2	20	0	0	0	18	2	20
Production of organic inputs	1	0	0	0	23	2	25	23	2	25
Others (pl specify)										
Total	3	35	2	37	26	11	37	61	13	74
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization					10		10	10		10
Protective cultivation	1	0	0	0	19	0	19	19	0	19
Others (pl specify)	1	0	0	0	10	0	10	10	0	10
Total (a)	1	0	0	0	19	0	19	19	0	19
b) Fruits										
I raining and Pruning	1	0	0	0	21	0	21	21	0	21
Cultivation of Emit	1	0	0	0	21	0	21	21	0	21
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	1	0	0	0	21	0	21	21	0	21
c) Ornamental Plants										
Nursery Management	1	19	0	19	0	0	0	19	0	19
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	1	19	0	19	0	0	0	19	0	19
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Others (nl specify)										
Total (a)										
f) Snices										
Production and Management technology										
Processing and value addition	<u> </u>									
Others (pl specify)										
Total (f)	1									
g) Medicinal and Aromatic Plants										
				1	1		1	1		1

										27
Nursery management										
Production and management technology										
Others (pl specify)										
Total (g)										
GT (a-g)	3	19	0	19	40	0	40	59	0	59
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management	1	2		4	20	7	27		0	21
Dairy Management	1	20	2	20	20	/	27	22	9	<u> </u>
Piggery Management	1	29	0	29	9		11	30	Z	40
Rabbit Management										
Animal Nutrition Management	1	30	3	33	7	0	7	37	3	40
Disease Management	1	48	0	48	1	0	1	49	0	49
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)		100		114			16	1.46	14	1.0
Total	4	109	5	114	37	9	46	146	14	160
Household food security by kitchen gardening and										
nutrition gardening										
Design and development of low/minimum cost										
diet										
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	26	26	0	2	2	0	28	28
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Total	1	0	26	26	0	2	2	0	28	28
VI Agril. Engineering			20	20	•			•	20	20
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
implements	3	0	0	0	70	32	102	70	32	102
Small scale processing and value addition		0	Ŭ	0	,,,		102	, 0		102
Post Harvest Technology										
Others (pl specify)										
Total	3	0	0	0	70	32	102	70	32	102
VII Plant Protection										
Integrated Pest Management	1	0	0	0	15	0	15	15	0	15
Ricecontrol of pests and diseases										
Production of bio control agents and bio										
pesticides	2	25	0	25	30	0	30	55	0	55
Others (pl specify)										
Total	3	25	0	25	45	0	45	70	0	70
	1									

										28
Integrated fish farming	3	16	0	16	44	17	61	60	17	<u>-</u> 0 77
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	1	19	5	24	0	0	0	19	5	24
Hatchery management and culture of freshwater										
prawn										
Breeding and culture of ornamental fishes	1	0	0	0	27	0	27	27	0	27
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	5	35	5	40	71	17	88	106	22	128
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nurserv management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	22	223	38	261	289	71	360	512	109	621

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of	of Participants										
	courses		Others			SC/ST		(Frand Tot	al		
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
I Crop Production												
Weed Management												
Resource Conservation Technologies												
Cropping Systems												
Crop Diversification												
Integrated Farming	2	63	20	83	25	31	56	88	51	139		
Micro Irrigation/irrigation												
Seed production												
Nursery management												
Integrated Crop Management	3	79	26	105	2	15	17	81	41	122		
Soil & water conservatioin												
Integrated nutrient management												
Production of organic inputs												
Natural farming	2	17	2	19	14	15	29	31	17	48		

										29
Total	7	159	48	207	41	61	102	200	109	309
II Horticulture			-			-				
a) Vegetable Crops										
Production of low value and high valume crops	2	40	15	55	18	10	28	58	25	83
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	2	40	15	55	18	10	28	58	25	83
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Tratal (h)										
10tal (D)										
C) Ornamental Flams										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (nl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (nl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	1	38	10	48	0	4	4	38	14	52
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	1	38	10	48	0	4	4	38	14	52
GT (a-g)	3	78	25	103	18	14	32	96	39	135
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	3	246	145	391	37	20	57	283	165	448
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	3	246	145	391	37	20	57	283	165	448
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										

										30
Rabbit Management										
Animal Nutrition Management	1	40	21	61	14	0	14	54	21	75
Disease Management	1	52	35	87	8	2	10	60	37	97
Feed & fodder technology										
Production of quality animal products										
Tetal	2	02	56	1.49	22	2	24	114	59	170
10tal V Homo Science/Women empewerment	<u>_</u>	92	50	148	22	<u>_</u>	24	114	20	1/2
Household food security by kitchen gardening and										
nutrition gardening	3	32	102	134	9	19	28	41	121	162
Design and development of low/minimum cost		32	102	151	,	17	20	11	121	102
diet										
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment		10		10			•		10	10
Location specific drudgery reduction technologies	1	18	31	49	3	17	20	21	48	69
Rural Crafts										
Women and child care										
Tratal	4	50	122	102	10	26	40	()	1(0	021
10tal VI Aquil Engineering	4	50	155	183	12	30	48	62	109	231
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and										
implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	4	116	2	118	51	56	107	167	58	225
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio										
Others (pl specify)										
Tetel	4	116	2	119	51	56	107	167	59	225
10tai	4	110	4	110	51	50	107	107		445
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
prawn										
Breeding and culture of ornamental fishes	1	46	7	53	11	5	16	57	12	69
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)			_							10
	1	46	7	53	11	5	16	57	12	69
IX Production of Inputs at site										
Seed Production										
Finding material production										
Bio-nesticides production										
Bio-fertilizer production										
Vermi-compost production									ļ	

Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	29	10	39	3	1	4	32	11	43
Formation and Management of SHGs										
Mobilization of social capital	2	52	53	105	0	15	15	52	68	120
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total	3	81	63	144	3	16	19	84	79	163
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	27	868	479	1347	195	210	405	1063	689	1752

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

Thematic area	No. of Participants									
	courses		Others			SC/ST		(Frand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming	3	80	20	100	28	40	68	108	60	168
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	79	26	105	2	15	17	81	41	122
Soil & water conservatioin										
Integrated nutrient management	1	18	2	20	0	0	0	18	2	20
Production of organic inputs	1	0	0	0	23	2	25	23	2	25
Others (pl specify) Natural farming	2	17	2	19	14	15	29	31	17	48
Total	10	194	50	244	67	72	139	261	122	383
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	2	40	15	55	18	10	28	58	25	83
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	0	0	0	19	0	19	19	0	19
Others (pl specify)										
Total (a)	3	40	15	55	37	10	47	77	25	102
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	0	0	0	21	0	21	21	0	21
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										

										32
Total (b)	1	0	0	0	21	0	21	21	0	21
c) Ornamental Plants										
Nursery Management	1	19	0	19	0	0	0	19	0	19
Management of potted plants										
Export potential of ornamental plants										
Others (nl specify)										
Total (c)	1	19	0	19	0	0	0	19	0	19
d) Plantation crops	-		Ŭ			Ŭ	0			
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	1	38	10	48	0	4	4	38	14	52
Post harvest technology and value addition										
Others (pl specify)	1	20	10	40	0	4	4	20	14	52
$\frac{10 \tan \left(g \right)}{CT}$	6	30 07	25	122	58	4	4	30 155	30	5 <u>4</u> 10 <u>4</u>
III Soil Health and Fertility Management	U	71	23	144		14	14	155		174
Soil fertility management										
Integrated water management	3	246	145	391	37	20	57	283	165	448
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Total	3	246	145	301	37	20	57	283	165	118
IV Livestock Production and Management	5	240	143	391	57	20	57	203	105	440
Dairy Management	1	2	2	4	20	7	27	22	9	31
Poultry Management	1	29	0	29	9	2	11	38	2	40
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	70	24	94	21	0	21	91	24	115
Disease Management	2	100	35	135	9	2	11	109	37	146
Feed & fodder technology										
Production of quality animal products										
Total	6	201	61	262	50	11	70	260	72	337
V Home Science/Women empowerment	U	201	01	202	- 39		70	200	12	332
Household food security by kitchen gardening and										
nutrition gardening	3	32	102	134	9	19	28	41	121	162
Design and development of low/minimum cost										
diet										
Designing and development for high nutrient										
efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Storage loss minimization techniques										
Value addition	1	0	26	26	0	2	2	0	28	28
Women empowerment	1	0	20	20	U	2	2	U	20	20
Location specific drudgery reduction technologies	1	18	31	49	3	17	20	21	48	69
Rural Crafts				-						

										33
Women and child care										
Others (pl specify)	-	50	150	200	10	20	50	(0)	107	250
10tal VI Agril Engineering	5	50	159	209	12	38	50	62	197	259
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation										
systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and										
implements	3	0	0	0	70	32	102	70	32	102
Small scale processing and value addition										
Post Harvest Technology										
Tetal	2	0	0	0	70	22	102	70	22	102
10tal VII Plant Protection	3	U	U	U	70	52	102	70	52	102
Integrated Pest Management	5	116	2	118	66	56	122	182	58	240
Integrated Disease Management	5	110	2	110	00	50	122	102	50	240
Bio-control of pests and diseases										
Production of bio control agents and bio										
pesticides	2	25	0	25	30	0	30	55	0	55
Others (pl specify)										
Total	7	141	2	143	96	56	152	237	58	295
VIII Fisheries										
Integrated fish farming	3	16	0	16	44	17	61	60	17	77
Carp breeding and hatchery management										
Carp fry and fingerling rearing			_						_	
Composite fish culture	1	19	5	24	0	0	0	19	5	24
Hatchery management and culture of freshwater										
prawn Droeding and culture of amomental fiches	2	16	7	52	20	5	42	04	12	06
Portable plastic carp batchery	Z	40	/		30	3	45	04	12	90
Pen culture of fish and prawn										
Shrimp farming										
Edible ovster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total	6	81	12	93	82	22	104	163	34	197
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Vermi compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development	1	20	10	20		1	4	22	4.4	40
Group dynamics	1	29	10	39	3	1	4	32	11	43
Nobilization of social conital	2	52	33	105	0	15	15	52	68	120
Fintrepreneurial development of farmers/voutba										
WTO and IPR issues										
Others (pl specify)										-
Total	3	81	63	144	3	16	19	84	79	163
XI Agro-forestry	-			-	-					
Production technologies										
Nursery management										

										34
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	49	1091	517	1608	484	281	765	1575	798	2373

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

	No. of				No. of	Participants				
Area of training	Courses		General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
I raining and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	20	3	23	4	1	5	24	4	28
Bee-keeping	1	19	1	20	11	0	11	30	1	31
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying										
Sheep and goat rearing	1	17	0	17	22	0	22	39	0	39
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	3	56	4	60	37	1	38	93	5	98

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

	No. of				No. of	Participants	8			
Area of training	Courses		General			SC/ST			Grand Tota	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Training and pruning of										
araharda										
Distants										
Protected cultivation of										
Vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production	-									
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										
farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture		-								
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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

	No. of				No. of	Participants	5			
Area of training	INO. 01 Courses		General			SC/ST			Grand Tota	1
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of										
Horticulture crops										
Training and pruning of										
orchards										
Protected cultivation of										
vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	1	20	3	23	4	1	5	24	4	28
Bee-keeping	1	19	1	20	11	0	11	30	1	31
Sericulture										
Repair and maintenance of										
farm machinery and										

implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal										
products										
Dairying										
Sheep and goat rearing	1	17	0	17	22	0	22	39	0	39
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing										
technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	3	56	4	60	37	1	38	93	5	98

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

	No. of				No.	of Particip	oants			
Area of training	Course		General			SC/ST		(Grand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	1	e	e	1	е	e	1
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and										
implements										
Gender mainstreaming through SHGs	1	0	26	26	2	7	9	2	33	35
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	1	23	5	28	1	2	3	24	7	31
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	2	23	31	54	3	9	12	26	40	66

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

	No. of				No.	of Particij	pants			
Area of training	Course		General			SC/ST		(Grand Tota	al
	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota
		e	e	1	e	e	1	e	e	1
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and										
implements										
Gender mainstreaming through SHGs										

Formation and Management of SHGs					
Women and Child care					
Low cost and nutrient efficient diet designing					
Group Dynamics and farmers organization					
Information networking among farmers					
Capacity building for ICT application					
Management in farm animals					
Livestock feed and fodder production					
Household food security					
Any other (pl.specify)					
TOTAL					

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

	No. of				No.	of Particip	ants			
Area of training	Courses		General			SC/ST		(Frand Tota	ıl
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs	1	0	26	26	2	7	9	2	33	35
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	1	23	5	28	1	2	3	24	7	31
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	2	23	31	54	3	9	12	26	40	66

Table. Sponsored training programmes

	No. of Courses				No. of	Participa	nts			
Area of training			General			SC/ST			Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	1	0	0	0	15	0	15	15	0	15
Commercial production of vegetables	1	19	0	19	0	0	0	19	0	19
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	2	19	0	19	15	0	15	34	0	34
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management	3	61	5	66	36	9	45	97	14	111
Animal Nutrition Management										

37

Animal Disease Management	1	48	0	48	1	0	1	49	0	49
Fisheries Nutrition										
Fisheries Management	3	0	0	0	60	17	77	60	17	77
Others (pl. specify)										
Total	7	109	5	114	97	26	123	206	31	237
Home Science										
Household nutritional security										
Economic empowerment of women	1	0	26	26	2	7	9	2	33	35
Drudgery reduction of women										
Others (pl. specify)										
Total	1	0	26	26	2	7	9	2	33	35
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	10	128	31	159	114	33	147	242	64	306

Name of sponsoring agencies involved

Details of vocational training programmes carried out by KVKs for rural youth

	No. of				No. of	Participant	s			
Area of training	Courses		General		SC/ST			Grand Tota	મ	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value										
addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-										
pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm										
machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery,	2	0	0	0	0	52	52	0	52	52
dying etc.	2	0	v	v	v	52		v	52	52
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total	2	0	0	0	0	52	52	0	52	52
Agricultural Extension										
Capacity building and group										
dynamics									ļ	
Others (pl. specify)									ļ'	
Total									ļ	
Grand Total	2	0	0	0	0	52	52	0	52	52

38

			No. of	TOTAL
Activities	No. of programmes	No. of farmers	Extension	
			Personnel	
Advisory Services	109	21985	615	22600
Diagnostic visits	3	27	14	41
Field Day	14	415	52	467
Group discussions	9	483	32	515
Kisan Ghosthi	8	455	29	484
Film Show	127	5465	343	5808
Self -help groups	16	169	28	197
Kisan Mela	3	2687	48	2735
Exhibition	5	14488	28	14516
Scientists' visit to farmers field	128	3111	261	3372
Plant/animal health camps	2	89	9	98
Farm Science Club	7	267	29	296
Ex-trainees Sammelan	1	52	4	56
Farmers' seminar/workshop	1	43	9	52
Method Demonstrations	63	2518	117	2635
Celebration of important days	6	331	26	357
Special day celebration	6	538	29	567
Exposure visits	9	339	21	360
Awerness programme on natural farming	11	611	39	710
Total	528	54073	1733	55806

IV. Extension Programmes

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	10
News paper coverage	131
Popular articles	11
Radio Talks	7
TV Talks	5
Animal health camps (Number of animals treated)	2 (317)
Others (pl. specify)	-
Total	481

Nama a C		Type of Messages						
Name of KVK	Message Type	Crop	Livestock	Weather	Marke- ting	Aware- ness	Other enterprise	Total
	Text only			109				
	Voice only							
	Voice & Text both							
	Total Messages			109				
	Total farmers			22600				
	Benefitted			22000				

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
NT A	Lectures organised			
INA	Exhibition			
	Film show			

Fair	 	
Farm Visit	 	
Diagnostic Practicals	 	
Distribution of Literature (No.)	 	
Distribution of Seed (q)	 	
Distribution of Planting materials (No.)	 	
Bio Product distribution (Kg)	 	
Bio Fertilizers (q)	 	
Distribution of fingerlings	 	
Distribution of Livestock specimen (No.)	 	
Total number of farmers visited the	 	
technology week		

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

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	DBW-303		24.00	81600	16
	Wheat	DBW-222		20.00	68000	50
	Wheat	HD-3086		20.00	68000	50
	Wheat	HD-3226		20.00	68000	50
Oilseeds	Mustard	RH 749		4.61	59238	78
	Mustard	RH-725		6.92	89500	247
Pulses	Moong	MH 421		4.41	55125	19
	Moong	MH 1142		3.30	41250	25
	Gram	GNG-2171		4.80	48000	20
	Gram	GNG-2144		2.60	26000	11
Fodder crop seeds	Oat	JHO-822		4.90	26950	21
Others	Guar	HG 2-20		7.82	58613	49
Total				123.36	690276	636

Production of seeds by the KVKs

Production of planting materials by the KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Cauliflower	Anandi		16680	16680	249
	Broccolli	Besty		4397	8794	130
	kakadi	Kesri		738	7266	32
	Muskmelon	Muskan		675	4725	26
	Watermelon	Kesar		654	4578	25
	Ridge gourd	Aalok		1085	7595	45
	Bottle gourd	MAHY-1		1137	7959	54
	Chilli	Kranti		12458	24916	388
	Tomato	NS 2535		3931	11793	180
	Brijal	Nishant		4670	4670	218
	Pumpkin	Badshah-251		925	6475	42
	Bitter gourd	Aman sri		975	6825	41
	Others	-				
Fruits	Malta	Blood red		3267	163350	156
	Kinnow	Kinnow		8982	359280	296
	Nimboo	Kumbhkath		772	30880	252
	Other fruit plants			471	9420	129
Ornamental plants	Rose	Ganganagri		402	4020	68

40

	Marigold	58	580	14
	Others	133	3380	46
Medicinal and Aromatic	Aloe vera	45	450	12
	Sudarshan	32	640	9
Plantation	Vermidek	60	900	10
	Neem	48	720	11
Total		62595	685896	2433

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	Vermi-compost	352	3520	8
	Worms	565	112700	25
Bio-pesticide				
Bio-fungicide				
Bio Agents	Trichoderma	760	114000	60
	Azolla	170.3	12775	96
Total		1847.3	242995	189

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows	-	-	-	-
Milk	Sahiwal	2820 lit.	100148	10
Calves	Sahiwal	2	30,000	In stock
Others (Pl. specify) [kjxks'	kSoviat chinchilla	-	-	-
cdjh	Sirohi	4	48925	4
Poultry				
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	Kadaknath, FFG	1510	120800	50
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	Indian goose	4	2000	In stock
Others (Pl. specify)	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others (Pl.specify)	-	-	-	-
Fisheries	-	-	-	-
Indian carp	-	-	-	-
Exotic carp	-	-	-	-
Others (Pl. specify)	-	_	-	-
Total			3,01,873	64

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of soil health cards distributed
Soil (Crop)	726	620	56	21780	726
Soil (Orchards)	443	74	42	8860	70
Water	1000	866	44	25000	1000
Plant	-	-	-	-	-
Total	2169	1560		55640	1796

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Hanumangarh1	18.08.2022	35

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution		
Keshaw Kheti (Quaterly)	1000 Each		

Category	Number				
Research Paper	5				
Technical bulletins	0				
Technical reports	7				
Pamphlets & Folders	08				

X. PUBLICATIONS

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

Activities conducted							
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers	Visit by officials			
			(No.)	(No.)			
NA							

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

	Meetings		Meetings Gosthies Field		Field d	ield days Farmers fair		Exhibition		Film sl	how	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

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

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

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
NA			
Total			

XIV. CASE STUDIES

Name of the KVK - Krishi Vigyan Kendra, Hanumangarh-1st

TITLE:- Nutritional kitchen gardening-A success story of empowering rural woman

Introduction:- Nutritional deficiency is most prevalent in rural areas where the habitual diet lacks variety and people cannot afford to diversify their diets and unable to include fruit and vegetables in their diet. The sustainable solution to their problem lies in the improvement and diversification of household diet by growing kitchen gardening. Kitchen gardens are cost-effective, practical and easily meet the balanced dietary requirements of rural households as well as add substantially to the family income. Crops are selected considering the prevailing food habits and climatic conditions of the implementation areas, and with the larger goal of ensuring availability of wholesome and nutritious food.

KVK Intervention: - A key intervention through the KVK program is distributing seeds and plants create kitchen gardens near hand-pumps or where families are disposing of waste water. These kitchen gardens are meant to increase food diversity in the diets of the participating families and reduce reliance on the market for introduced fruits and vegetables.

Preparing such kitchen garden in the village makes availability of all types of vegetables in the village. Mrs. Naseeb Kour is successful backyard Kitchen gardener from Bhakaranwali village within Sangaria block of Hanumangarh district in Rajasthan, started kitchen gardening in 2017 very small area. She did not have prior more knowledge of kitchen gardening. Mrs. Kour came in contact with the Home Scientist of Krishi Vigyan Kendra and understand that nutrition is important for our health and different vegetables contribute to good health of the family. She knew what, when and how to cultivate so that we get variety of seasonal vegetables

throughout the year. She is hard working farm women and she is able to grasp the technologies faster and adopt it. **Output:-** The detailed components of kitchen garden model were demonstrated, constant follow up visits, trainings, field days and other extension activities has been concentrated. Initially, she was adopting kitchen garden with constant encouragement, KVK scientist are successful in building up confidence in them. Now she is happy to enhance the nutritional affordability for her family. These kitchen gardens are meant to increase food diversity in the diets of the participating families and reduce reliance on the market for introduced vegetables and fruits. Really, she developed a beautiful and attractive kitchen garden with the help of KVK scientist.

Particular	Yield	Gross	Gross	Net	B:C	Other Parameters
	(Kg.)	cost	return	return	Ratio	
		(Rs/Unit)	(Rs/Unit)	(Rs/Unit		
Demonstration	273.9	871	9856	8985	11.32	Availability of maximum
						fresh vegetable.
Local Check	118.9	583	4287	3704	7.35	Availability of least fresh
						vegetable

Outcome :- According to Mrs. Kour, the kitchen garden has been impactful for her family and in her village as well as other villages of district. These gardens provide the rural resource poor communities with a platform for innovations in supplemental food production as well as an opportunity to improve their livelihoods. Family labour, especially efforts of women, becomes particularly important in the management of these gardens. Besides, the major use of organic farming practices makes these gardens environment friendly as well. She said the quantity was more than sufficient for the foods to be distributed equally for the whole family. Now she is happy to enhance the nutritional affordability for her family. Kitchen gardens help to increase household income either by sale of the food products grown in the gardens or by the consumption of the same food items that the families would have otherwise purchased from markets using a significant portion of the family income.

Impact :- Now she became a motivator for many of farm women in the village. She adopted the technology and she produce year-round vegetables. She promotes the small kitchen garden model with an aim to improve nutrition security and supplement household income. The primary rationale behind this model is to help improve the nutrition status of small and marginal farmers and their families, providing them with an assorted mix of vegetables for a considerable stretch of the year.



Name of the KVK- Krishi Vigyan Kendra, Hanumangarh-1st TITLE: - Ramandeep Kour: A Success Story on Kitchen Garden

Introduction: - Kitchen gardening helped women to develop proficiency in vegetable cultivation to some extent, which in turn helps them become better home and environment managers and meet the needs of their families more

easily and economically. This enhances their status within the family and in the society at large as well. Smt. Ramandeep Kour, a progressive farm woman of kitchen garden initiative and a resident of Bhakaranwali village in Sangaria says, "Apart from an increase in income, the kitchen garden initiative also helped me to ensure food security and improve the nutrition status of my family".

KVK Intervention: - KVK geared up to change behaviours related to health and nutrition through a project on NARI aiming to target the occupational health of rural families. Women learnt to build homestead nutrition gardens filled with fenugreek, spinach, carrot and other crops, and practice improved health and nutritional behaviour to ensure good occupational health of their own and their families. Homestead nutrition gardens or Poshan Vatika are cost effective, practical and easily meet the balanced dietary requirements of rural households as well as add substantially to the family income.

The intervention introduced eight improved locally available and nutrient-rich varieties of vegetables suitable for home garden cultivation, but households were free to grow any other vegetables or fruits as well.

Output: A key intervention through the demonstration program is distributing seeds and seedling through FLD programme of the KVK and helping create kitchen gardens near where families are disposing of waste water. These kitchen gardens are meant to increase food diversity in the diets of the participating families and reduce reliance on the market for introduced vegetables and fruits.

Particular	Yield	Gross	Gross	Net	B:C	Other Parameters
	(Kg.)	cost	return	return	Ratio	
		(Rs/Unit)	(Rs/Unit)	(Rs/Unit		
Demonstration	187.4	648	8378	7733	12.93	Availability of maximum
						fresh vegetable.
Local Check	82.4	389	3624	3235	9.32	Availability of least fresh
						vegetable

Outcome: For rural resource-poor families, the economic benefits of kitchen gardens are beyond simple food production and subsistence. Homestead nutrition gardens helped increase household income either by sale of the food products grown in the gardens or by the consumption of the same food items that the families would have otherwise purchased from markets using a significant portion of the family income. Mrs. Kour proudly claimed that the foods grown in the garden were being utilized in recipes within their home. Additionally, she said the quantity was more than sufficient for the foods to be distributed equally for the whole family.

Impact: As a result, the contribution of women in household food production has increased manifold, at times even making them the sole care takers of these gardens. It is seen that with time, kitchen gardening activities commensurate with their daily domestic chores, subsequently generating hopes for their socio-economic enhancement. As a part of the programme Mrs. Kour and all participants are encouraged to exchange seeds with other households to increase food diversity within the whole village. Seed exchange and proper maintenance of the kitchen garden will allow this intervention to be sustainable for the foreseeable future. Mrs. R a m a n d e e p Kour is very happy with this improved kitchen garden intervention and an example for other farm women of the village.



Name of the KVK- Krishi Vigyan Kendra, Hanumangarh-1st

Title:- Mrs. Sandeep kour: A success story on backyard poultry.

Introduction:- Indian rural and landless families frequently engage in backyard or homestead chicken farming, which is a lucrative additional source of income. Women, children, and the elderly can manage it with ease, and it requires little initial investment and produces substantial economic returns. Such birds are a cheap and abundant source of protein and energy for low-income homes, as are their meat and eggs. A native night shelter structure, scavenging, natural chick hatching, low bird output, limited supplemental feed, local selling, and insufficient medical care are characteristics of backyard chicken farming.

KVK Intervention:- Using backyard poultry farming as a means of changing rural households' nutrition, health, and earning habits, KVK aims to enhance their occupational safety. She learn to rear, feeding, basics of brooding in backyard poultry farming from KVK during training progarmme.

Output:- With the help of the FLD programme, a significant intervention provided Smt. Sandeep Kaur with vaccinated kadaknath poultry chicks, feed, and equipment for backyard poultry farming as well as the necessary advice for the different issues she encountered. This facility gives the family wholesome eggs, lean meat, and money.

Particular	Egg production	Meat	Gross cost	Gross	Net return	B:C Ratio
	(Number/ unit/	production	(Per unit/	return (Per	(Per unit/	
	month)	(cock/	month)	unit/	month)	
		month)		month)		
Demonstration	282	2	885	6640	5755	7.5
(kadaknath)						
Local check	147	3	917	3105	1888	3.4
(unidentified)						

Outcome:- In terms of nutrition(Egg and meat) and financial support, backyard poultry is the backbone of rural and underprivileged families. She feeds chickens with kitchen scraps, azola, and other waste to reduce expenses. Additionally, these backyard chickens also aid in the reduction of farm animals' external parasites. **Impact:-** All family members and animals benefit from Mrs. Kaur's efforts in terms of nutrients, economy, and tick control as a result of her use of spare time. After seeing the advantages of this technology, many families in the village and their relatives have adopted backyard poultry. Mrs. Sandeep kour is very happy with this improvement in organized backyard poultry farming and an example of women empowerment in the society.







IQBAL SHINGH VPO: Shahpini, Tehsil : Sangaria Distt.-Hanumangarh (Rajadthan) Mob. No. : +91-8003318801 shahpiniorganicfarms@gmail.com

Challenges Faced

- Lack of knowledge for the natural farming in starting period.
- Water Scarcity.
- Lack of Quality seeds.
- Marketing of the Products was the major hurdle in first year.

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Innovative Farmer Low Cost Natural Farming

Area of Expertise

- > Promoting Bed Farming:
 - 3 times less water consumption- 3 Hectare of Land could be watered in Bed Farming method in comparison to normal method where only 1 hectare could be watered in same interval of time. Promoting in order to cope out with water scarcity problem of Rajasthan farming.
 - Less requirement of Labour & cultivation resources; hence cost of Production is reduced.
 - Multiple crops could be taken after cultivating the land for single time which could help in reducing the cost of cultivation of land.
 - No Need of putting fire, residue of wheat plant could be the manure for next crops. Solution to reduce the Air pollution & also side by side we could save the micro-organisms which are the main source of nutrients provider to the Crops.
- Trainings to Number of Farmers every year to promote natural farming techniques.
- Use of Renewable Resources & a big Water Storage Tank of around 27000 Sq./ft. in order to support other neighbour farmers too from water scarcity.
- Mulching: Making of Orchards of Kinnu & Malta with the practice of Mulching Technique.
- Multiple cropping: Apart from wheat, cotton and pulses; number of new flowers crop tried & made successful examples in area.
- Making of Decomposers, trichoderma & other natural boosters for the growth of crops from natural products.
- Lab test Reports of organic products for the surety of the buyers

Building up of Farmers Group for Direct Selling

Direct selling of products was the major hurdle which was the weakest point being as a farmer.

- ➢ A group of 10 members was made in 2020 & filed for registration under PGS India.
- Number of trainings was attended by this group all across in north India.
- Distribution of Pamphlets in 100 km of radius.
- Meetings with local people; specially Doctors to aware the presence of Natural farms in local as most of the people use to get wheat from Madhya Pradesh.
- It took around 2 years to build up the name in the market "SHAHPINI NATURAL FARMS". Now we are even not able to complete the huge demand of wheat & cereals as due to limited farmers. Our target & mission for next 10 years is to educate and transform at least 90% of the village from conventional farming to Natural farming.







Economics (Cost and return) (Rs. per ha.)

	Yield (q)	Production cost	Gross income	Net income	C :B ratio
Low cost natural farming	37	15120	118400	103280	7.83
Conventional chemical farming	48	24777	96000	71223	3.87

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
January 2020 to December 2020	3234883.94	5399164.75	3502180.24	4550397.45
January 2021 to December 2021	4550397.45	6850837.16	3541103.80	8058771.81
January 2022 to December 2022	7148394.74	4889741.32	5144306.39	7148394.74

XIII. STATUS REVOLVING FUNDs



Nutrition-Sensitive Agricultural Resources and Innovation (NARI)

As a part of this programme major focus is establishment of Nutri Garden to grow essential vegetables. The kitchen and nutri gardens are the most ancient type of gardens. These main highlights of this programme will be "Grow what you eat and eat what you grow."

Keeping in view the need for nutritional security in rural areas, Nutrition-Sensitive Agricultural Resources and Innovation (NARI) programme initiated by Indian Council Agricultural Research, was implemented in Bhakranwali village by Krishi Vigyan Kendra Hanumangarh-I. The main objectives of this programme are connecting agriculture with nutrition to promote nutrition sensitive agriculture; creating awareness about nutrition sensitive agriculture among farm women and rural youth; creating awareness on nutritional gardening. Keeping these objectives in mind, Krishi Vigyan Kendra, Hanumangarh-I has run some special programms in Adopted Villages such as: to make women and rural youth aware of nutritional crop production; organizing demonstrations of nutritious crops and varieties on farmers' fields and promoting nutrition sensitive agriculture; Value addition of available food and capacity development of training

Under the NARI programme, 06 trainings and 02 awerness programmes were organized with 469 farmers and farm women in the village to create awareness about nutrition sensitive agriculture among farmers, farm women and rural youth. In order to promote nutrition sensitive agriculture, 42 demonstrations on "Kitchen Gardening" were conducted in the village.

S.	Area of training	Participants			
No.		Male	Female	Total	
1	Location specific drudgery reduction technologies (1)	21	48	69	
2	Household food security by kitchen gardening and nutrition gardening (3)	41	121	162	
3	Production of low value and high volume crops (1)	10	21	31	
4	Nutritional importance and preparation of Nutri Thali (1)	18	33	51	
	Total (6)	90	223	312	







Nutritional Map



S.No.	Block	Crop/Fruit/Vegetable
1	Hanumangarh	Rice, Wheat, Kinnow, Peas, Cucurbits.
2	Tibbi	Rice, Wheat, Kinnow, Guava, Potato, Onion, Chilli .
3	Sangaria	Wheat, Gram, Mustard, Kinnow, Malta, Carrot, Tinda, Cole crops.
4	Pilibanga	Rice, Wheat, Kinnow, Date palm, Onion, Chilli , Peas, Tomato, Okra.

Various National Programmes organized during 2022 International Women Day

(8 March, 2022)

Guests: Smt. Kamala Godara (Up pradhan) Sh. Baljinder Singh (Member Zila Parishad) Participants: 64



KVK visit by H,ble Governor, Meghalaya (Sh. Styapal Malik) (13 April, 2022)



Kisan Mela 2022

(26 April, 2022) **Theme:** Krushi ki Bhagidari Paraampara Hamari **Guests:** Sh. Nathmal Didhel IAS (DC-HMH) Sh. Danaram Godara, DDAg. HMH Dr. Rishi Kumar {PS (Ento) CICR-RS-Sirsa} Dr. Jitender Singh Brar (Ex. DD-KVK, Bhatinda) Dr. P.L.Nehra (Ex. DEE, SKRAU, Bikaner)



Garib Kalyan Yojana (31 May, 2022)

Participants: 1115

Guests: Smt. Kamala Godara (Up pradhan) Sh. Dayanand Kakodia (DDM-NABARD-HMH)

Sh. Balwant Rai (KP&I-GANGMUL-HMH)

Dr. Jogender Singh {Ex. HOD (Ento) PAU, Ludhiana}

Dr. Jitender Singh Brar (Ex. DD-KVK, Bhatinda)





Rashtriya Poshan Mah & Rashtriya Poshan Day

(17th September, 2022)

Guests: Sh. Sandeep Kumar (Sarpanch-Gilwala) Smt. Kamaljeet Kaur (Sarpanch-Santpura) Sh. Gurasahab Singh (Sarpanch-Bhagatpura) Sh. Mani Ram Jakhar (Manager IFFCO-HMH) Participants: 118





Kisan Sammelan & Entrepreneur Conclave (17 October, 2022)

Guests:

Participants: 129



World Soil Day (5th December, 2022)



Feedback for policy makers: -

- Increase the number of water storage tanks (Diggis) under subsidy programme; So that more number of diggies can be constructed on the farmers' fields and farmers' crops can be saved from canal closure and water scarcity.
- To popularize the Drip/Sprinkler irrigation system, the subsidy amount should be increased on their establishment.
- The subsidy amount should be increased for the establishment of new orchards so that the interest of the farmers increases in this direction.
- > Attractive rates of milk should be ensured to encourage dairy business.
- > Ensure availability of pregnancy diagnostic kit for animals.
- The seeds of public sector vegetable varieties are not available to the farmers, so the availability of these seeds should be ensured.

Feedback for researchers: -

- > Development of frost resistant bold seeded mustard varieties.
- > Need for research on planting space in mustard crop.
- > Strong strategies should be developed for sclerotinia stem rot disease in mustard.
- > Evaluation of some effective herbicides to control of weeds in mustard.
- > Need for research on phyllody resistant variety of sesame.
- Recommended herbicides are not effective for control of pyaji (*Asphodelus tenuifolius*) in gram crop. Therefore, there is a need for research on effective herbicides to control pyaji in gram crop.
- Need of varieties, who have tolerance or resistance to yellow mosaic virus and suitable for rain fed areas in moong.
- > Need of research on bio pesticides to control white fly & pod borer.
- Parawilt management in cotton.
- > To prevent the problem of fruit drop and Phytopthora in citrus, suitable strategies should be developed.

Feedback for Development Department

- > Demonstrations and awareness programmes should be conducted on Bio fortified varieties.
- > Gear up the seed production of bio fortified varieties.
- Refresher courses/training programmes should be organized for field staff. So that their knowledge can be updated about new technologies.

	Scheduled	Castes S	ub Plan ((SCSP))
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S.	Items/Activities	No. of	programmes	No. of benificiaries		
no.		Targets	Achievements	Targets	Achievements	
1	Trainings	4	13	100	456	
2	On Farm Trials	2	1	20	10	
3	Frontline demonstrations (FLDs)	10	5	430	218	
	and other demonstrations					
4	Awareness camps, exposure visits etc	4	2	160	103	
5	Input distribution					
5.1	Seed (Field crops)	40	81.7	220	188	
5.2	Fish spawn	20000	43250	10	10	
5.3	Live stock strains	1500	0	60	0	
5.4	Planting material	6600	8510	220	230	
6	Services/facilitation					
6.1	Testing samples of soil and water	600	605	600	392	
6.2	Promotion of Agri/entrepreneurship	2	0	10	0	
6.3	Natural farming					
6.3.1	No. of demonstrations	15	0	15	0	
6.3.2	No. of training	2	1	80	27	
6.3.3	No. of awareness programmes	4	4	160	171	