#### ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2021 (1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021)

#### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra,	Office	FAX	kvkrajkot@gmail.com	www.jau.in
Junagadh Agricultural University,	(0281)	0281)		
Targhadia- 360 023, Rajkot-I,	2784170	2784170		
Dist.: Rajkot, Gujarat State				

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

Address	Telephone		E mail	Website
	Office	FAX		address
Junagadh Agricultural University,	(0285)	(0285)	dee@jau.in	www.jau.in
Junagadh (Gujarat)	2672080	2672653		2

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

Name	Telephone / Contact						
	Office	Mobile	Email				
Dr. G.V. Marviya	(0281) 2784170	9825554434	gvmaravia@jau.in				

#### **1.4. Year of sanction:** September – 2004

#### 1.5. Staff Position (as on 31 December, 2021)

SI.		Name of the	Mobile No.		If Pern please i		Date of
51. No.	Sanctioned post incumbent		Discipline	Current Pay Band	Current Grade Pay	joining	
1.	Senior Scientist and Head	Dr. G. V. Marviya	9825554434	Bio- chemistry	131400- 217100 (UL-13A )	-	4-1-2022
2.	Subject Matter Specialist	Dr. M. M. Tajpara	9427667135	Animal Science	68900- 205500 (UL-11)	92600/-	4-8-2015
3.	Subject Matter Specialist	Dr. J. H. Chaudhary	9978303111	Agronomy	57700- 182400 (UL-10)	66800/-	1-8-2017
4.	Subject Matter Specialist	Dr. M. K. Jadeja	7016848659	Agril. Extension	57700- 182400 (UL-10)	95300/-	5-10-2019
5.	Subject Matter Specialist	Vacant	-	Horti- culture	•	-	-

6.	Subject Matter	Shri D. P.	9426449712	Agril.	68900-	101200/	1-11-2016
	Specialist	Sanepara		Engg.	205500	-	
					(UL-11)		
7.	Subject Matter	Vacant	-	Home	-	-	-
	Specialist			Science			
8.	Programme	Shri A. B.	7990446090	Agronomy	39900-	44900/-	7-8-2014
	Assistant	Dabhi			126600		
					(L-7)		
9.	Computer	Miss. R. T.	9979027064	-	39900-	49000/-	3-1-2009
	Programmer	Padaliya			126600		
					(L-7)		
10.	Farm Manager	S. R. Rathva	9712313538	Plant	39900-	38090/-	30-7-2018
				Breeding	126600		
					(L-7)		
11.	Accountant/	J.M.Adhiya	-	-	39900-	44900/-	1-1-2022
	Superintendent				126600		
					(L-7)		
12.	Stenographer	U.C.Suthar	-	-	25500-	29600/-	1-1-2022
					81100		
					(L-4)		
13.	Driver 1	Vacant	-	-	-	-	-
14.	Driver 2	Vacant	-	-	-	-	-
15.	Supporting staff 1	Smt.U.G	-	-	14800-	29700/-	16-9-2005
		Zala			47100		
					(L-IS-1)		
16.	Supporting staff 2	Vacant	-	-	-	-	-

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

Sr. No.	Item	Area (ha)
1	Under Buildings	2.87
2.	Under Demonstration Units	0.50
3.	Under Crops	13.80
4.	Horticulture	0.50
5.	Farm Pond	0.48
6.	Others (Road & drainage)	1.85
	Total	20.00

# Infrastructural Development: Buildings 1.7.

## A)

	8	Source Stage							
S.	Name of	of		Complet	e	Incomplete			
S. No.	building	funding	Comple- tion Year	Plinth area (Sq. m)	Expenditure (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction	
1.	Administrative Building	KVK	31-3- 2011	550	5500000	-	-	-	
2.	Farmers Hostel	KVK	31-3- 2011	305	3000000	-	-	-	
3.	Staff Quarters (6)	KVK	31-3- 2011	400	4000000	-	_	-	

4.	Demonstration					-	-	-
	Units: (8)		2010	7.5.11D	262500			
	Solar water	ATIC	2019	7.5 HP	262500	-	-	-
	pumping							
	system Die gegenlant	RKVY	2007	10 ou m	42000			
	Bio gas plant Farm	RKVY	2007	10 cu.m Diff. farm	42000	-	-	-
	implement	KK V I	2009	implement	-	-	-	-
	demo			s				
	Vermi-compost	KVK	2018	-		_	_	
	unit		2010					
	Farm waste	KVK	2019	7 m x 5 m	_	-	_	_
	compositing		2017	,				
	Entomophagou	KVK	2018	0.10 ha	_	_	_	_
	s park							
	Crop cafeteria	KVK	2012	0.10 ha	-	-	-	_
	Kitchen garden	KVK	2018	0.05 ha	_	-	-	_
5	Fencing					-	-	-
6	Rain Water					-	-	-
	harvesting							
	system: (5)							
	Farm pond-1	KVK	2012	9000 cu.m	105000		-	(cap: 6500
				capacity				en and water
							holding capacity increased u	
								(Runoff is
								om 12 ha
	F 10		2010	950			gricultura	,
	Farm pond-2	KVK	2010	850 cu.m	-			ing from 2 ha
				capacity		agricu		nd and 3 ha
	Roof water	KVK	2017	Size:	204285	Doin	building	rvesting in
	harvesting tank	ΚVΚ	2017	L: 6.10 x	204283			c (Cap: 50000
	narvesting tank			W: 3.10 x				m office roof
				H: 2.50 m			area	
	Open well	KVK	2013	Size:	9500	Runoff f		area for open
	recharging			L: 2.0 x W:			vell recha	1
	structure			2.0 x H: 1.5				0 0
		*** ***	2010	m	12500	<b>D</b> 1		
	Bore well	KVK	2018	Size: L: 1.5 x W:	12500			ting from 190
	recharging			1.0 x H: 1.0		sq.m ro		or bore well
	structure			m			recharg	ing
7	Threshing floor	-	-	-	_	-	-	-
8	Farm godown	KVK	2012	-	400000	-	-	-
9	Seed hub			196.80	3500000	-	-	_
	godown	ICAR	2019					
10	ICT lab	-		-	-	-	-	_
11	Store room	RKVY	9-2-10	70.61	454500	-	-	-
12	Training hall	RKVY	11-2-10	190.99	1395800	-	-	-
13	Processing unit	RKVY	11-2-10	197.31	1536400	-		-
14	Implement	RKVY	9-2-10	77.33	297800	-	-	-
1	shed		/ 10	, 1.55	<i></i>	1		

# **B)** Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Toyota Qualis (GJ-3AB-8192)	2004	590000	389861	DEE letter no. JAU/DEE/AC-2/ Permi/ 6805-06 /21 dt 25-10-21
Tata Sumo (GJ-3G-1612)	2008	600000	255729	DR letter no. JAU/DR/ADM-3/ Write off /8373-75 /2021 dt 27-10- 21
Motorcycle (GJ-3DF-5781)	2010	50000	50700	Working
Bolero New (GJ-3GA-1805)	2022	830000	1500	Working
Tractor: Mahindra 39 HP (GJ-3CL-7668)	2011	440000	-	Working
Mini Tractor: Mistubishi 18.5 HP (GJ-3DD-8043)	2000	219000	-	Not working

# C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Generator set	2002	24900	Working
Color TV (Akai) with Remote	2002	13850	Working
LCD Project (Panasonic PT LC 50)	2002	164368	Working
PA Audio Vision System	2002	20000	Working
Computer System - Intel Pentium IV	2003	32000	Working
Computer - Wipro Super Genius Desktop	2006	-	Working
Refrigerator - Electronic Kelvinator	2006	10,500	Working
Solar steel digital water plant	2006	45000	Working
Balaji Bio Gas Plant	2007	32000	Working
Aspee Tractor Mounted Sprayer	2007	32000	Working
Laptop Computer (HCL)	2008	47500	Working
Air Assisted Blower type Sprayer	2009	98750	Working
Photo Copier Machine (Richo)	2009	115300	Working
LCD Projector with ceiling mount kit (Model-PT- CB50NTE-2GA Panasonic)	2009	92155	Working
DVD Home theater system with Speaker (HCL)	2009	28000	Working
LCD TV 22" (Model- 22LG30 -L. G.)	2009	27287	Working
Cotton Stalk Shredder	2009	121000	Working
Groundnut Digger-Tractor Operated	2009	78500	Working
Cultivator cum Rotavator	2009	90000	Working
Groundnut Decorticator	2009	95850	Working
Multi Crop Thresher	2009	114000	Working
Processing Unit	2009	1685000	Working
Plantar – Tractor operator	2009	44000	Working
Digital Camera (Nikon) P- 90 12.1	2010	24300	Working
Acer Desktop Veriten PC	2016	46032	Working
Digital Xerox Machine with Printer	2016	144391	Working
K-yan Pro standerd	2016	110644	Working
Home UPS inverters system	2016	79000	Working

<ul> <li>10/02/2021</li> <li>Dr. V. P. Chovatiya, Horble Vice Chancellor, JAU, Junagadh. Dr. B. M. Gajipara, Directorate of Extension, JAU, Junagadh. Dr. D. S. Hirpara, Research Scientist (DF). DFRS, JAU, Targhadia</li> <li>Dr. B. S. Kabaria, Senior Scientist &amp; Head, KVK, JAU, Targhadia, Dist. Rajkot</li> <li>PI.Ds should be conducted with newly released chick peavariety GIG-6 instead</li> <li>PGE-5 in ATIC project.</li> <li>Pr. B. Kabaria, Senior Scientist &amp; Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot</li> <li>Correction should be made in Problem cause diagram i.e "More increases the length of monopodial as well as sympodial branch" in Ors. K. Tiwari, Technical Officer, Dept. of Horticulture, Rajkot</li> <li>Dr. S. K. Tiwari, Technical Officer, NHRDF, Naranka, Rajkot</li> <li>Dr. S. K. Tiwari, Technical Officer, JAU, Junagadh</li> <li>Dr. S. K. Tawari, Technical Officer, JAU, Junagadh</li> <li>Dr. D. K. Parsana, Rajkot Dr. H. C. Chhodwadia, Astu. Directorate of Extension, JAU, Junagadh</li> <li>Dr. Vikramsinh Chauhan, Distr: Morbi Shri Kiran Patel, Reliance Forendation, Jasdan, Dist: Rajkot</li> <li>Dr. Vikramsinh Chauhan, Distr: Gropada, Shri Jasdan, Dist: Rajkot</li> <li>Treatment should be taken as "line soving at 20 cm with drip irrigation with line soving method in cumin".</li> <li>More training system.</li> <li>More training system.</li> <li>More training system.</li> <li>To conduct training on value addition in pearl millet instead of sympadial branch of corton "intragation" in OTT on "Performance of drip irrigation with line soving method in cumin".</li> <li>More training should be planned on soil health and integrated farming system.</li> <li>To conduct training on value addition in pearl millet instead of</li> </ul>	Date	Name & Designation of Participants	Salient Recommendations	Action
<ul> <li>10/02/2021 Dr. V-P. Chovatiya, Hon'ble Vice Chancellor, JAU, Junagadh. Dr. H. M. Gajipara, Directorate of Extension, JAU, Junagadh Dr. D. S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadia</li> <li>&gt; FLDs should be conducted with bio fortified pearl during summer.</li> <li>&gt; FLDs should be conducted with newly released chick pea variety GJG-6 instead for GJG-5 in ATIC project.</li> <li>&gt; FLDs should be conducted with newly released chick pea variety GJG-6 instead for J. N. B. Jadaw, Senior Scientist &amp; Head, KVK, JAU, Targhadia, Dist: Rajkot</li> <li>&gt; FLDs should be conducted with newly released chick pea variety GJG-6 instead for GJG-5 in ATIC project.</li> <li>&gt; Correction should be made in Problem cause diagram i.e "More increases the length of monopodial branch of cotton" instead of "More increases the length of monopodial branch of cotton crop"</li> <li>&gt; OFT on "De-topping in Cotton crop"</li> <li>&gt; OFT should be conducted Shri S. T. Kotadiya. /v DCF, Rajkot</li> <li>&gt; Dr. D. K. Parsama, Rajkot DDF, Naranka, Rajkot Dr. H. C. Chhodvadia, Asstt. Directorate of Extension, JAU, Junagadh</li> <li>&gt; MRDF, Naranka, Rajkot Dairy (Gopal Dairy), Rajkot</li> <li>&gt; Dr. D. K. Parsama, Rajkot Dairy (Gopal Dairy), Rajkot</li> <li>&gt; Treatment should be taken as "line sowing at 20 cm with drip irrigation" in OfT on "Performance of drip irrigation with line sowing method in cumin".</li> <li>&gt; More training should be planeed on soil health and integrated farming system. Shri Marjibhai J. Topiya, Village : Magharwada, Tal &amp; Dist.: Rajkot</li> <li>&gt; To conduct training on value addition in pearl millet instead of</li> </ul>				
<ul> <li>Hon'ble Vice Chancellor, JAU, Junagadh. Dr. H. M. Gajipara, Directorate of Extension, JAU, Junagadh Dr. D. S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadia</li> <li>S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadia, Dist: Rajkot</li> <li>FLDs should be conducted with newly released chick pea variety GJG-6 instead of GJG-5 in ATIC project.</li> <li>FLDs should be conducted with newly released chick pea variety GJG-6 instead of GJG-5 in ATIC project.</li> <li>Correction should be made in Problem cause increases the length of monopodial as well as sympodial branch of cotton 'instead of 'More' increases the length of monopodial as well as sympodial branch of cotton 'instead of 'More' increases the length of monopodial branch,'' in OFT should be conducted of SMS</li> <li>OFT should be conducted of SMS</li> <li>(Home science)</li> <li>Shri J. K. Patel, Joint Director of Horticulture, Rajkot</li> <li>Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot</li> <li>Dr. B. K. Tiwari, Technical Officer, JAU, Junagadh</li> <li>Dr. D. K. Parsana, Rajkot Dairy (Gopal Dairy), Rajkot</li> <li>Dr. U. Kramsinh Chauhan, District Agriculture Officer, Morbi, Dist: Morbi Shri Kira Patel, Reliance Foundation, Jaxdan, Dist: Rajkot</li> <li>Treatment should be taken as "line sowing at 20 cm with drip irrigation with line sowing nethod in cumin".</li> <li>Theatment should be taken as "line sowing at 20 cm with drip irrigation with line sowing nethod in cumin".</li> <li>More training should be planned on soil heath and integrated farming system.</li> <li>To conduct training on value addition in pearl millet instead of</li> </ul>	10/02/2021	Dr. V.P. Chovativa.		
Dr. H. M. Gajipara, Directorate of Extension, JAU, Jungadh Dr. D. S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadia Dr. G. R. Sharma, Principal, Polytechnic in Agril. Enge, JAU, Targhadia Dr. B. B. Kabaria, Senior Scientist & Head, KVK, JAU, Targhadia, Dist: Rajkot Dr. N. B. Jadav, Senior Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot Dr. L. L. Jivani, Senior Scientist & Head, KVK, JAU, Morbi, Dist: Morbi Shri R.R. Tilva, DAO, District Panchayat, RajkotFLDs should be conducted with newly released chick pa variety GJG-6 instead of GJG-5 in ATIC project.Shri R.R. Tilva, DAO, District Panchayat, RajkotCorrection should be made in Problem cause diagram i.e "More increases the length of monopodial branch of cotton" instead of "More increases the length of monopodial branch of cotton riper instead of "More increases the length of monopodial branch of cotton crop"Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot Dr. J. K. Chhodvadia, Asstt. Directorate of Extension, JAU, Jungadh Prof. Pinky Sharma, AEE, DEE office, JAU, Jungadh Dr. D. K. Parsana, Rajkot Dairy (Gopal Dairy), RajkotOfT should be conducted on "Effect of plastic mulch on drip irrigated water melon or tomato crop" instead of "Summer sesame response to irrigation with line sowing method in cumin".Trati. Jasdan, Dist: Rajkot Shri Kiran Patel, Reliance Foundation, Jasdan, Dist: RajkotTreatment should be taken as "line sowing at 20 cm with drip irrigation" in OFT on "Performance of drip irrigation with line sowing method in cumin".Shri Hiteshbai P. Kyada, Dist: Rajkot Shri Hiteshbai P. Kyada, Nillage : Lilapur.Tal: Jasdan, Dist: Rajkot Shri Hanghbai T. Ramani, Village : Lilapur, Tal: Jasdan, Dist: Rajko	10, 02, 2021			
Directorate of Extension, JAU, Junagadh Dr. D. S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadiaimillet variety GHB-1129 during summer.Implemented ecceptDFRS, JAU, Targhadia <t< th=""><th></th><th></th><th>with bio fortified pearl</th><th></th></t<>			with bio fortified pearl	
<ul> <li>Dr. D. S. Hirpara, Research Scientist (DF), DFRS, JAU, Targhadia</li> <li>Dr. G. R. Sharma, Principal, Polytechnic in Agril. Engg., JAU, Targhadia, Dist: Rajkot</li> <li>FLDs should be conducted with newly released chick was not conducted with newly released chick was not conducted with newly released chick was not conducted with newly released chick was not conducted was not contor" instead of "More increases the length of cottor" instead of "More increases the length of cottor or "De-topping in cotton crop"</li> <li>OFT should be conducted on "Effect of plastic mulch no drip irrigated water melon or tomato crop" instead of "Summer sesame response to irrigation under drip and mulch no drip irrigation" in OFT on "Performance of irrigation with line swing method in cumin".</li> <li>The Hitesbbai P. Kyada, Willage : Rafala, Tal: Rajkot, Dist: Rajkot</li> <li>More training should be planned on soil health and integrated farming system.</li> <li>More training on value addition in pearl millet instead of</li> </ul>		51	millet variety GHB-1129	
<ul> <li>DFRS, JAU, Targhadia</li> <li>Dr. G. R. Sharma, Principal, Polytechnic in Agril. Engg., JAU, Targhadia</li> <li>Dr. B. B. Kabaria, Senior Scientist &amp; Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot</li> <li>Dr. N. B. Jadav, Senior Scientist &amp; Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkot</li> <li>Shri R.R. Tilva, DAO, District Panchayat, Rajkot</li> <li>Shri J. K. Patel, Joint Director of Horticulture, Rajkot</li> <li>Shri J. K. Patel, Joint Director of Horticulture, Rajkot</li> <li>Shri S. T. Kotadiya, I/c DCF, Rajkot</li> <li>Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot</li> <li>Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot</li> <li>Dr. D. K. Tiwari, Technical Officer, NHRDF, Naranka, Rajkot</li> <li>Dr. D. K. Parsana, Rajkot Dairy (Gopal Dairy), Rajkot</li> <li>Dr. O. K. Parsana, Rajkot Dairy (Gopal Dairy), Rajkot</li> <li>Dr. Ni Kiran Patel, Reliance Foundation, Jasdan, Dist: Rajkot</li> <li>Shri Kiran Patel, Reliance Foundation, Jasdan, Dist: Rajkot</li> <li>Shri Hitsshbhai P. Kyada, Village : Rafala, Tal: Rajkot, Dist: Rajkot</li> <li>Shri Hitsshbhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Yirankajkot Ramani, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li> <li>Shri Manjibhai J. Topiya, Village : Lilapur, Tal: Jasdan, Dist: Rajkot</li></ul>			during summer.	
Dr. G. R. Sharma, Principal, Polytechnic in Agril, Engg., JAU, Targhadia Dr. B. B. Kabaria, Senior Scientist & Head, KVK, JAU, Targhadia, Dist: RajkotPLDs should be conducted with newly released chick pea variety GIG-6 instead of GIG-5 in ATIC project.value addition in addition in gata and the problem cause vacant post of SMS (Home science)Dr. N. B. Jadav, Senior Scientist & Head, KVK, JAU, Morbi, Dist: Morbi Dr. L. L. Jivani, Senior Scientist & Head, KVK, JAU, Morbi, Dist: Morbi Shri R.R. Tilva, DAO, District Panchayat, RajkotCorrection should be ended in Problem cause made in Problem cause ticreases the length of monopodial branch of cotton" instead of "More increases the length of monopodial branch of cotton" instead of "More increases the length of monopodial branch of cotton "instead of "More increases the length of monopodial branch" in OFT on "De-topping in cotton crop"vacant post of SMS (Home science)Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, Rajkot Dr. D. K. Parsana, Rajkot Dairy (Gopal Dairy), Bajkot> OFT should be conducted on "Effect of plastic mulch on drip irrigated water melon or tomato water melon or tomato water melon or tomato mulching technology".Prof. Pinky Sharma, AEE, DEE office, JAU, Junagadh Dr. Vikramsinh Chauhan, District Agriculture Officer, Morbi, Dist. Morbi Shri Kiran Patel, Reliance Foundation, Jaskan, Dist: Rajkot> Treatment should be taken as "line sowing metod in cumin".Shri Huteshbhai P. Kyada, Village : Liapur, Tal: Jasdan, Dist: Rajkot Shri Manjibhai J. Topiya, Village : Liapur, Tal: Jasdan, Dist: Rajkot> More training system.Shri Kalyanbhai C. Ramani, Village : Liapur, Tal: Jasdan, Dis		<b>1</b>	C	-
Agril. Engg., JAU, TarghadiaDr. B. B. Kabaria, Senior Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. Rajkotwith newly released chick pea variety GJG-6 instead of GJG-5 in ATIC project.Dr. N. B. Jadav, Senior Scientist & Head, KVK, JAU, Pipalia (Dhoraji), Dist. RajkotCorrection should be made in Problem cause diagram i.e "More increases the length of monopodial as well as sympodial branch of cotton" instead of "More increases the length of monopodial as well as sympodial branch of cotton" instead of "More increases the length of monopodial strach" in OFT on "De-topping in cotton crop"Dr. B. K. Dubey, Deputy Director, NHRDF, Naranka, RajkotOFT should be conducted on "Effect of plastic mulch on drip irrigated water melon or tomate crop" instead of "Summer sesame response to irrigation under drip and mulching technology".Dr. D. K. Parsama, Rajkot Dairy (Gopal Dairy), RajkotOFT should be taken as "line sowing at 20 cm with drip irrigation" in OFT on "Performance of drip irrigation" in OFT or "Performance of drip irrigation with line sowing method in cumin".Shri Kiran Patel, Reliance Foundation, Jasdan, Dist: RajkotTreatment should be taken as "line sowing at 20 cm with drip irrigation" in OFT or "Performance of drip irrigation with line sowing method in cumin".Shri Hitesbhai P. Kyada, Village : Liapur, Tal: Jasdan, Dist: RajkotMore training system.To conduct training on value addition in pearl millet instead of				0
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Shri Pankajbhai Ramani, Village : Lilapur, Tal: Jasdan, Dist.: Rajkotvalue addition in pearl millet instead of			To conduct training on	
Tal: Jasdan, Dist.: Rajkot millet instead of			•	
Tail Fastail, Districtagies			-	
groundnut.		Tal: Jasdan, Dist.: Rajkot		
			groundnut.	

# 1.8. Details of SAC meetings to be conducted in the year

#### 2. DETAILS OF DISTRICT

#### 2.1. Major farming systems/enterprises (based on the bench mark analysis made by the KVK)

Sr. No	Farming system/enterprise
1	Groundnut – Wheat/ Cumin/ Chick pea, Cotton – Summer Groundnut/ Sesame/ Pulses
2	Dairy product
3	Farm Waste Management specially for cotton stalk
4	Fruit and Vegetable Preservation
5	Value addition in Groundnut, Til ,Gram etc.

# 2.2 Description of Agro-climatic Zone & major agro ecological situations

# a) Soil type

Sr. No	Agro-climatic Zone	Characteristics
1.	North Saurashtra Agro Climatic	The total geographical area of North Saurashtra Agro Climatic Zone is 35.2 Lacs ha. Out of total area, 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Rajkot district is low in their availability of nitrogen while medium in
	Zone (VI)	phosphorus and high in available potash except the available phosphorus and potash is in medium category in adopted villages. Monsoon commences usually by the end of June and withdraws by middle of September. Average annual rainfall of districts is 648 mm while 1156.5 mm during 2021.

#### b)Topography

	Sr. No	Agro ecological situation	Characteristics
	1.	Situation No. 4	Shallow black soil with 500-600 mm Rainfall
Ī	2.	Situation No. 14	Hilly Soils with 500-600 mm Rainfall

#### 2.3 Soil types

Sr. No	Soil type	Characteristics	Area in ('000) ha
1.	Clay to clay loam	Medium black calcareous soil	258
2.	Sandy Clay Loam to Clayey	Well drained soil with rapid permeability	301
3.	Sandy to Sandy loam 10 cm,	Well drained soils	
	Calcareous		

# 2.4. Area, Production and Productivity of major crops cultivated in the district (2020-21)

Sr. No.	Crop	Area (ha)	Production (Tone)	Productivity (Kg. /ha)
1	Groundnut	233895	894862	3782
2	Cotton	264430	504053	1906
3	Sesamum	1676	1671	997
4	Castor	5551	14322	2580
5	Pearl millet	589	778	1321
6	Green gram	1319	1260	955
7	Black gram	1111	1199	1079
8	Pigeon pea	1746	3148	1803
9	Wheat	139257	517887	3719
10	Chick pea	36850	74880	2032
11	Cumin	29812	23438	786
12	Groundnut (Summer)	3685	8276	2246
13	Pearl millet (Summer)	1453	3473	2390

Source: District agriculture department

# 2.4 Weather data (2021)

Month	Rainfall (mm)	Tempera	ature <sup>0</sup> C	<b>Relative Humidity (%)</b>	
		Maximum	Minimum	Maximum	Minimum
January	0	26.8	10.1	66.9	37.7
February	0	32.1	14.3	70.6	28.1
March	0	37.5	18.6	69.4	24.6
April	0	40.4	21.9	73.8	21.1
May	53.7	39.6	24.8	77.4	34.5
June	150.5	37.1	25.3	79.6	51.3
July	177.0	34.4	25.0	82.8	62.6
August	22.1	33.0	23.1	84.9	60.3
September	699.8	30.7	23.7	91.4	79.7
October	51.4	33.7	20.6	73.9	44.6
November	0.0	32.5	16.5	57.1	38.3
December	2.0	27.9	12.7	73.0	45.5
Total/Ave.	1156.5	33.8	19.7	75.1	44.0

# 2.6 Production and productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production (tonne)	Productivity
Cattle	1		
Crossbred	4,52,000	33,26,900 (Milk)	
Indigenous			
Buffalo	3,62,000	52,84,700 (Milk)	
Sheep	2,63,400	2,66,810 (Wool)	
Goats	1,97,000	2,31,240 (Milk)	
Pigs	1,000		
Crossbred			
Indigenous			
Rabbits			
Poultry		Production of eggs ( No.)	
Hens (Crossbred)	13,400	32,52,000 (Egg)	
Desi	7,800	3,92,000 (Egg)	
Category			
Fish (Reservoir)			

# 2.7 Details of Operational area / Villages

Sr. No.	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas	
1	Jasdan	Cluster I	Barvala Kamlapur Lilapur Shivrajpur Nani lakhavad	Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Garlic,	Pink ball worm in cotton, Heavy infestation of sucking pest in cotton, Phytopthora disease in sesame and White grub	• Reducing the	
2	Vinchhiya	Cluster II	Amrapur Hingolgadh Gundala Bhoyara Lalavadar	Onion. * Enterprises are dairy business, Vermi	and White grub infestation in groundnut, Long inter-calving period in buffalo, Nutritional	farmers for arid	
3	Rajkot	Cluster III	Haripar Makanpar Umrali Khachharia Hodathali	,	deficiency in animal feed and fodder, Less area under horticultural crops, Anemia problem in	VermiNutritional deficiency in animal feed and f roasted roundnut nd chikkiNutritional deficiency in animal feed and fodder, Less area under horticultural crops, Anemia problem in adolescent girlsNutritional horticultural crops.To create the awareness for grading, processing and marketing (value)	<ul> <li>crops.</li> <li>Efficient use of irrigation water</li> <li>To create the awareness for grading,</li> </ul>

#### 2.8 Priority thrust areas

Sl. No	Crop/ Enterprise	Thrust area
1	Groundnut, Sesame etc	Increasing the productivity of the major crops by adopting the recommended dry farming technologies and to create awareness for value addition.
2	Water conservation	<i>In situ</i> soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure.
3	Cotton	Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production.
4	Arid Fruits	Promoting the arid horticulture.
5	Livestock production	Enhancing productivity of milch animals by proper feeding and breeding management.
6	Women empowerment	Providing self employment through skill oriented income generating activities
7	Agriculture	Developing interest among youth for agriculture as a profession.
8	Horticulture	Value addition in agriculture produces through proper grading, processing, marketing and information technology.
9	PHT	Minimizing the post harvest losses and to create the awareness for proper storage.
10	Income generating activities	Self employment among rural youth and skill oriented income generating activities.
11	Nutrition management	Care and importance of nutrition in children & pregnant women.

# **3. TECHNICAL ACHIEVEMENTS**

	0	FT		FLD				
		1		2				
Numb	Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
12	04	37	12	195	155	195	155	

#### **3.1.** A. Details of target and achievements of mandatory activities

	Training				<b>Extension Programmes</b>			
		3		4				
Numbe	r of Courses	Number of Participants		Number of Programmes		Number of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
97	78	2425	2119	-	107	-	2668	

Seed Pro	duction (Qtl.)	Planting materials (Nos.)		
	5	6		
Target	Target Achievement		Achievement	
150	8		-	

Livestock, poultry	v strains and fingerlings (No.)	Bio-products (Kg)		
	7	8		
Target	Achievement	Target	Achievement	
-	-	-	-	

## **3.1. B.** Operational areas details during 2021

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	Variety	-	All cluster	FLD
		White grub	-	All cluster	FLD, OFT and
					Training
		Stem rot	-	All cluster	FLD and Training
2	Cumin	Wilt	_		FLD, OFT and
					Training
3	Gram	Variety	_	All cluster	FLD and Training
4	Chilli	Leaf curl and	-	All cluster	OFT
		fruit rot			

## 3.2. Technology Assessment (Kharif 2021, Rabi 2020-21, Summer 2021)

				Commer				Plant	Tuber	
Thematic areas	Cereals	Oilseeds	Pulses	cial	Vegetables	Fruits	Flower	ation	Crops	TOTAL
				Crops				crops		
Integrated Nutrient		1								1
Management										
Varietal Evaluation										
Integrated Pest		1								1
Management										
Integrated Crop										
Management										
Integrated Disease				1	1					2
Management										
Small Scale Income										
Generation										
Enterprises										
Weed Management										
Resource										
Conservation										
Technology										
Farm Machineries										
Integrated Farming										
System										
Seed / Plant										
production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
TOTAL		2		1	1					4

## A.1. Abstract on the number of technologies assessed in respect of crops

## A.2 Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Fisheries	TOTAL
Evaluation of Breeds							
Nutrition Management							
Disease of Management							
Value Addition							
Production and Management							
Feed and Fodder							
Small Scale income generating							
enterprises							
TOTAL							

#### **B.** Achievements on technologies Assessed

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Groundnut	Organic farming in Kharif Groundnut	1	1	0.4
Varietal Evaluation					
Integrated Pest Management	Groundnut	Infestation of white grub in organic Kharif Groundnut	1	1	0.4
Integrated Crop Management					
Integrated Disease Management	Chilli	Effect of the fungicide on disease of chilli	1	3	0.4
	Cumin	Use of <i>Trichoderma</i> for wilt disease management in cumin	1	3	0.4
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique	 				
Mushroom cultivation					
Total			4	8	1.60

# **B.1.** Technologies Assessed under various Crops

# B.2. Technologies assessed under Livestock and other enterprises :

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

# C. 1. Results of Technologies Assessed

# **Results of On Farm Trial**

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Rainfed	Higher use of chemical fertilizers	Kharif Groundnut	1	<ol> <li>1.RDF (Chemical)+ Seed treatment</li> <li>2. Only cow based</li> <li>3. All Bio product.</li> </ol>	Yield Kg/ha and White grub infestation (%)					
Groundnut	Rainfed	Higher use of pesticides	Infestation of white grub in organic Kharif Groundnut	1	T-1 : Chemical + seed treatments for white grubs and sucking pests. T-2 : Cow base farming T-3 5 t FYM/ha + Bio- fertilizer	Yield Kg/ha and White grub infestation (%)					
Chilli	Irrigated	Problem of diseases in chilli	Effect of the fungicide on disease of chilli	1	T1: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit T3: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC@ 40gm/10 lit	Yield Kg/ha and infestation (%)					

Cumin	Irrigated	Heavy	Use of	1	T1 :No use of	Yield			
	-	incidence	Trichoderma		trichoderma or	Kg/ha and			
		of wilt	for wilt disease		fungicide at the time of	infestation			
		disease in	management in		sowing	(%)			
		cumin	cumin		T2: Trichoderma @ 5				
					kg /ha with organic				
					manure @500 kg / ha				
					at the time of sowing				
					T3: Application of				
					Trichoderma @ 5 kg				
					/ha along with organic				
					manure @500 kg / ha				
					at the time of sowing				
					and second application				
					of Trichoderma @ 5 kg				
					/ha along with organic				
					manure by				
					broadcasting method at				
					15 days after				
					germination.				

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year )	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Organic farming in <i>Kharif</i> Groundnut					
T1 RDF (Chemical) + Seed treatment	National Centre of Organic farming, Ghaziabad (U.P.)	2250	Kg/ha	81,100	4.8
T2 Only Cow Based		1700	Kg/ha	71,200	3.2
T3 All Bio Products		1930	Kg/ha	77,300	3.8

1. RDF Chemical + seed treatments for white N	National Centre of Organic	2250	Kg/ha		
grubs and sucking pests. fa	arming, Ghaziabad (U.P.)	(1.9%)	(% plant infestation)	81,100	4.8
2. Only cow based		1700 (2.5%)	Kg/ha (% plant infestation)	71,200	3.2
3. All Bio product		1930 (1.3%)	Kg/ha (% plant infestation)	77,300	3.8
Effect of the fungicide on disease of chilli					
T 1: spray of Hexaconazol @ 1ml per litre @ 15 days interval	JAU, Junagadh	9917 (15%)	Kg/ha (% plant infestation)	97750	2.81
T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil		13167 (8 %)	Kg/ha (% plant infestation)	145275	3.78
<ul><li>T3: 2 spray of Hexaconazol @ 1ml per litre</li><li>@ 15 days interval + Soil drenching of COC@ 40gm/10 lit</li></ul>		10125 (10 %)	Kg/ha (% plant infestation)	98875	2.87
Use of Trichoderma for wilt disease managen	ment in cumin				
T1 : No use of trichoderma or fungicide at the time of sowing	JAU, Junagadh	1063.5 (14.8 %)	Kg/ha (% plant infestation)	97235	2.72
T2 : Application of Trichoderma @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing		1250 (8.9 %)	Kg/ha (% plant infestation)	120560	3.37
T3 : Application of Trichoderma @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after		1375 (3.2 %)	Kg/ha (% plant infestation)	136095	3.80

# **C2.** Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

## <u>OFT-1</u>

#### 1. Title of Technology Assessed : Organic farming in *Kharif* Groundnut

- 2. Problem Definition : Non use of organic products in farming
- 3. Details of technologies selected for assessment :
  - 1. RDF (Chemical)+ Seed treatment
    - 2. Only cow based
    - 3. All Bio product
- 4. Source of technology : JAU
- 5. Production system and thematic area : NCDF, Ghaziabad (UP)
- 6. Production system and thematic area : NRM
- 7. Performance of the Technology with performance indicators:

No	Name of the	Name of the Village	Yield ( Kg/ha )				
farmer			T1	T2	T3		
1	KVK Farm	Targhadia	2250	1700	1930		
	Average	e	2250	1700	1930		

- 8 Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Chemical treatment has given higher production as compare to organic treatment.
- 9. Final recommendation for micro level situation :Yield can be increased and white grub infestation can be reduced with use of *Trichoderma* in mixture with castor cake.
- 10. Constraints identified and feedback for research : White grub infestation was observed more in organic are as compare to chemical treatment.
- 11. Process of farmers participation and their reaction : This was first trial for experimentation and it will be improved and repeated nest.

#### <u>OFT-2</u>

#### 1. Title of Technology Assessed : Infestation of white grub in organic *Kharif* Groundnut

- 2. Problem Definition : Higher use of pesticides
- 3. Details of technologies selected for assessment :
  - 1. RDF Chemical + seed treatments for white grubs and sucking pests
  - 2. Only cow based
  - 3. All Bio product
- 4. Source of technology : JAU
- 5. Production system and thematic area : NCDF, Ghaziabad (UP)
- 6. Production system and thematic area : NRM
- 7. Performance of the Technology with performance indicators:

No	Name of the	Name of the	Unit			
110	farmer	Village		<b>T1</b>	Т2	T3
1	KVK Farm	Targhadia	Yield ( Kg/ha )	2250	1700	1930
			(% plant infestation)	1.9	2.5	1.3

- 8. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Chemical treatment has given higher production as compare to organic treatment.
- 9. Final recommendation for micro level situation :Yield can be increased and white grub infestation can be reduced with use of *Trichoderma* in mixture with castor cake.
- 10. Constraints identified and feedback for research : White grub infestation was observed more in organic are as compare to chemical treatment.
- 11. Process of farmers participation and their reaction : This was first trial for experimentation and it will be improved and repeated nest.

# OFT-3

#### 1. Title of Technology Assessed : Effect of the fungicide on disease of chilli

- 2. Problem Definition : Wilt diseases in chilli
- 3. Details of technologies selected for assessment :
  - T1: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval
  - T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit
  - T3: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC@ 40gm/10 lit
- 4. Source of technology : JAU
- 5. Production system and thematic area : IDM
- 6. Production system and thematic area : IDM
- 7. Performance of the Technology with performance indicators:

N			Name of the Unit		Result			
No	farmer	Village		<b>T1</b>	T2	T3		
1	KVK Farm	Targhadia	Yield ( Kg/ha )	9917	13167	10125		
			(% plant infestation)	15	8	10		

- Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : T2 has given higher production as compare to T1 & T3
- 9. Final recommendation for micro level situation : this is first year of trial final result will be obtained after two year trial
- 10. Constraints identified and feedback for research : T2 has given higher production as compare to T1 & T3
- 11. Process of farmers participation and their reaction : This was first trial for experimentation and it will be waited for farmer participation & reaction

# OFT-4

- 1. Title of Technology Assessed : Use of *Trichoderma* for wilt disease management in cumin
- 2. Problem Definition : Heavy incidence of wilt disease in cumin
- 3. Details of technologies selected for assessment :
  - T1: No use of *Trichoderma* or fungicide at the time of sowing
  - T2: Application of *Trichoderma* @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing..

- T3: Application of Trichoderma @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination.
- 4. Source of technology : JAU
- 5. Production system and thematic area : IDM
- 6. Production system and thematic area : IDM
- 7. Performance of the Technology with performance indicators:

Na	Name of the	Name of the	Unit		Result						
No	farmer	Village		T1	T2	T3					
1	KVK Farm	Targhadia	Yield ( Kg/ha )	1063.5	1250	1375					
	·	·	(% plant infestation)	14.8	8.9	3.2					

8. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : T3 has given higher production as compare to T1 & T2

- 9. Final recommendation for micro level situation : This is first year of trial final result will be obtained after two year trial
- 10. Constraints identified and feedback for research : T3 has given higher production as compare to T2 & T3
- 11. Process of farmers participation and their reaction : This was first trial for experimentation and it will be waited for farmer participation & reaction

#### **3.3. FRONTLINE DEMONSTRATION**

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

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

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization		ontal spreachnology	
				methods suggested to the Extension system	No. of villages	No. of farmers	Area in ha
1	Groundnut	IPM	Varietal evaluation+ IPM through Chlorpyriphos	Management of white grub through seed treatment	9	12	6.0
2	Groundnut	INM	Variety+ INM+ IPM+IDM	To test yield potentiality of newly released groundnut variety	8	11	5.0
3	Chickpea	Varietal evaluation	GJG-5	To test yield potentiality of newly released gram variety	10	11	7.0
4	Cumin	Pest Management	IPM	Management of pest through bio agent	1	10	4.0
5	Cumin	Disease Management	IDM	Management of wilt through bio agent	5	6	3.0

6	Buffalo	Nutrient Manage ment	Chelated mineral mixture power	Increased milk production	5	22	21
7	Cow	Nutrient Manage.	by Pass protein	Increased milk production	4	12	12
8	Cow	Nutrient Manage.	by pass fat	Increased milk fat %	4	14	14

# B. Details of FLDs implemented during 2021 (Kharif 2021, Rabi 2020-21, Summer 2021)

**Oilseeds** (*Kharif*-2021):

Sr.	Сгор	Thematic	Technology	Season and	Area (		De	. of farn monstra	Reasons for short-	
No.	Стор	area	Demonstrated	year	Proposed	Actual	SC/ ST	Others	Total	fall in achievem
1	Groundnut	Pest	Varietal	Kharif	4.0	4.0	1	9	10	-
		Managem	evaluation +	2021						
		ent	IPM							
2	Groundnut	Nutrient &	Varietal +	Kharif	4.0	4.0	1	9	10	-
		Pest	INM+IDM +	2021						
		manageme	IPM							

#### **Pulses** (*Rabi* 2020-21):

Sr.	Crop	Thematic	Technology	Season and	Area	(ha)		. of farn monstra	tion	Reasons for short-
No.	Стор	area	Demonstrated		Proposed	Actual	SC/ ST	Others		fall
1	Chickpea	Varietal	Varietal	Rabi	20	20	10	40	50	-
		evaluati	evaluation	2020-21						

## **Others** (Spices & livestock):

			, , , , , , , , , , , , , , , , , , ,	Season			No	. of farn	ners/	Reasons
Sr.	Crop	Thematic	Technology	and	Area			monstra	tion	for short-
No.	стор	area	Demonstrated		Proposed	Actual	SC/ ST	Others		fall
1	Cumin	IPM	GC-4	<i>Rabi</i> 2020-21	4	4	1	9	10	-
2	Cumin	IDM	GC-4	<i>Rabi</i> 2020-21	2	2	1	4	5	-
3		Nutrient Managem ent	Bypass Protein (22%)	-	-	-	2	18	20	-
4	Cow	Nutrient Managem ent	ByPass Fat	-	-	-	1	9	10	-
5		Nutrient Managem ent	Chelated Mineral Mixture	-	-	-	4	36	40	-

# Details of farming situation

Сгор	Season	Farming situation (RF/Irrigated)	Soil type	Stat	us of	soil	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
	<b>9</b> 1	Farmi (RF/	Ň	N	Р	K					
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Kharif	RF	M. B.	L	Μ	Η	Wheat/	11/6/	16/10/	1156	-
	-						Cumin	2021	2021	mm	
Groundnut	Kharif	RF	M. B.	L	Μ	Η	Wheat/	4/6/	2/10/	1156	-
							Cumin	2021	2021	mm	
Chickpea	Rabi	Irrigated	M. B.	L	Μ	Η	G'nut /	16/11/	21/2/	-	-
-							Cotton	2020	2021		
Cumin	Rabi	Irrigated	M. B.	L	Μ	Н	G'nut /	24/11/	20/2/	-	-
		_					Cotton	2020	2021		

# Technical Feedback on the demonstrated technologies

S.	Feed Back									
No.										
1	To enhance the farmers to use recently developed certified varieties of different crops.									
2	roper use of fertilizers, Irrigation, insecticides and fungicide as per recommendation to									
	reduce the production cost.									
3	Low yield of Garlic variety G-4 to compare local variety.									
4	gh yield and big size of Onion variety Red-3 to compare local variety									

## Farmers' reactions on specific technologies

S.	Feed Back
No.	
1.	Reddening in cotton
2.	Pink boll worm in cotton
3.	Pod borer / wire worm and ear wing problem in groundnut in sporadic area
4.	White grub damage was observed in groundnut in sporadic area
5.	Infestation of stem rot, rust and tikka disease were observed in groundnut
6.	Research needed for control of insect-pests and diseases in organic farming
7.	Colletotricum fungus (Onion ring disease) in Kharif onion
8.	Longer inter calving period in buffalo
9.	Mastitis problem in cow and buffalo

# Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	6	August and February	131	-
2	Farmers Training	4	2021	113	-
3	Media coverage	1	-	-	-
4	Training for extension functionaries	1	September	21	-

#### C. Performance of Frontline demonstrations

#### Frontline demonstrations on oilseed crops

Crear	Thematic	Technology	Variates	No. of	Area		Yield (q/ha)			%	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			k
Сгор	Area	demonstrated	Variety	Farmers	(ha)	Demo		Check	Increase in yield	Gross	Gross			Gross			BCR	
						High	Low	Average	CHEEK	in yielu	Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return	Return	( <b>R</b> / <b>C</b> )
Groundnut	Pest	Varietal	GJG-															
	Management	evaluation+	32	10	4.0	31.00	23.00	27.00	21.00	28.6	36000	105000	69000	2.91	35100	95000	59900	2.70
		IPM																
Groundnut	Nutrient &	Varietal +	GJG-															
	Pest	INM+IDM +	32	10	4.0	33.00	25.00	29.00	23.00	26.08	38000	115000	77000	3.02	35500	98500	63000	2.77
	management	IPM	32															

#### Frontline demonstration on pulse crops :

Chan	Thematic	technology	Vorieta	No. of	Area					%		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Crop	Area	demon- strated	Variety	Farmers	(ha)		Dem	0	Check	Increase in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
		strateu				High	Low	Average	CHECK	in yielu	Cost	Return	Return	( <b>R</b> /C)	Cost	Return	Return	( <b>R</b> /C)	
Chickpea	Varietal	Varietal	GG-5	50	20	26.50	22.25	23.75	20.50	15.85	27500	121125	93625	4.40	26500	104550	78050	9.95	
-	evaluation	evaluation																	
		(GG-5)																	

#### FLD on Other crops

Category						Yield	l (q/ha)		% Change in Yield	Parai disease	her neters percent		nomics of c (Rs./		tion	Есон	nomics of c	heck (Rs./	ha)
& Crop	Area	technology	rarmers	(na)		Demo		Check	in rieiu	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
					High	Low	Average			201110	0110011	Cost	Return	Return	( <b>R</b> /C)	Cost	Return	Return	( <b>R</b> /C)
Cumin	IPM	GC-4	10	4	12.50	10.62	11.69	9.73	20.00			36220	147500	111280	3.07	32100	121625	89526	2.78
Cumin	IDM	GC-4	5	2	13.75	11.25	12.25	10.50	14.28			35550	153125	117575	3.30	32100	131250	99150	3.08

#### Frontline Demonstration on Nutri cereals : Nil

							Yie	ld (q/ha)			Ecor	nomics of	demonstra	tion	I	Economic		ĸ
0	Thematic	Technology	<b>x</b> 7 • 4	No. of	Area					% Increase		(Rs	./ha)			(Rs	./ha)	
Crop	Area	demonstrated	Variety	Farmers	(ha)		Dem	10		in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High Low Average Ch		Check	·	Cost	Return	Return	( <b>R</b> /C)		Return	Return		

## FLD on Livestock

Category		Name of the technology	No. of Farmer	No.of Units (Animal/		njor Notora	% change			Econo	mics of d		ration	Ec	onomics		ck
	area	demonstrated	rarmer	Poultry/ Birds, etc)		neters Check	0	Demo	<u>meter</u> Check		(Rs) Gross Return	Net			(Rs) Gross Return	Net	
Cow	Nutrient Management	Bypass Protein (22%)	20	20	1686	1494	12.85				79533		· /		68540		· · · · · · · · · · · · · · · · · · ·
	Nutrient Management	By Pass Fat	10	10	8.0 %	6.7 %	19.40										
Buffalo		Chelated Mineral Mixture	40	40	1613	1491	8.18			59130	75086	15956	1.34	58126	69657	11531	1.27

# 3.4. Training Programmes

Farmers' Training including sponsored training programmes (o	on campus)

Thematic area	No. of					Particip	ants			
	courses		Others			SC/ST		G	Frand Tot	tal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	15	2	17	7	3	10	22	5	27
Resource Conservation										
Technologies	2	32	8	40	12	8	20	44	16	60
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Integrated nutrient										
management										
Production of organic inputs	2	31	7	38	13	6	19	44	13	57
Others (pl. specify)										
Total	5	78	17	95	32	17	49	110	34	144
II Horticulture										
a) Vegetable Crops										
Production of low value and										
high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of										
Orchards										
Cultivation of Fruit	1	19	4	23	0	0	0	19	4	23
Management of young										
plants/orchards										
Rejuvenation of old orchards										
Export potential fruits	1	1							1	ļ
Micro irrigation systems of	1									
orchards										
Plant propagation techniques	1	21	5	26	0	0	0	21	5	26
Others (pl specify)				20			0			20
Total (b)	2	40	9	49	0	0	0	40	9	49

c) Ornamental Plants										
Nursery Management		1								
Management of potted plants										
Export potential of										
ornamental plants										
Propagation techniques of										
Ornamental Plants										
	<u> </u>	+								
Others (pl specify) Total ( c)		++								
		+								
d) Plantation crops		+								
Production and Management										
technology		+								
Processing and value addition		+								
Others (pl specify)		+								
Total (d)		+								
e) Tuber crops		──┤								
Production and Management										
technology	ļ									
Processing and value addition	ļ									
Others (pl specify)	ļ									
Total (e)	ļ									
f) Spices										
Production and Management										
technology	L									
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic										
Plants										
Nursery management										
Production and management										
technology										
Post harvest technology and										
value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	2	40	9	49	0	0	0	40	9	49
III Soil Health and Fertility										
Management										
Soil fertility management	1	12	0	12	5	3	8	17	3	20
Integrated water management	1	15	5	20	7	2	9	22	7	29
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)		1 1		1						
Total	2	27	5	32	12	5	17	39	10	49
		·	-	~-		-		~~		•-

IV Livestock Production										
and Management										
Dairy Management	3	54		54	8		8	62		62
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition										
Management										
Disease Management	1	18		18	2		2	20		20
Feed & fodder technology	1	19		19	3		3	22		22
Production of quality animal					-					
products	1	21		21	2		2	23		23
Others (pl specify)										
Total	6	112	0	112	15	0	15	127	0	127
V Home Science/Women	•		•			Ŭ			•	
empowerment										
Household food security by										
kitchen gardening and										
nutrition gardening										
Design and development of				<u> </u>						
low/minimum cost 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										
Location specific drudgery										
reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinery and its										
maintenance	1	32	0	32	3	0	3	35	0	35
Installation and maintenance	1	52	0	52	5	0	5	55	0	35
of micro irrigation systems	1	27	0	27	3	0	3	30	0	30
Use of Plastics in farming	1	21	0	21	5	0	5	30	0	30
practices	1	11	0	11	4	0	4	15	0	15
Production of small tools and	1	11	0	11	-	0	-	15	0	15
implements										
Repair and maintenance of										
farm machinery and										
implements	1	21	0	21	2	0	2	23	0	23
Small scale processing and	1	<u> </u>	U		<i></i>	0		23	U	23
value addition	1	0	23	23	0	4	4	0	27	27
Post Harvest Technology	1	0	23	23	0	+	+	0	21	<i>∠1</i>
Others (pl specify)	2	47	6	53	5	1	6	52	7	59
Total	 7	138	<u> </u>	<b>167</b>		5	22	155	34	189
10141	1	130	<u>49</u> 24	10/	1/	5	44	133	J <b>-</b>	107

VII Plant Protection										
	2	47		47		3	3	47	3	50
Integrated Pest Management	Z	47		47		3	3	47	3	30
Integrated Disease	1	10		10	4		4	22		22
Management	1	19		19	4		4	23		23
Bio-control of pests and	1	22		22	2		2	24		24
diseases	1	22		22	2		2	24		24
Production of bio control		2.4		2.1	1		1	27		25
agents and bio pesticides	1	24		24	1		1	25		25
Others (pl specify)		110	0	110	_		10	110		100
Total	5	112	0	112	7	3	10	119	3	122
VIII Fisheries										
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										
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										
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										
10181										

X CapacityBuilding 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										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	27	507	60	567	83	30	113	590	90	680

# Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of				P	articipa	nts			
	courses		Others			SC/ST		G	rand To	otal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	66	5	71	15	5	20	81	10	91
Resource Conservation										
Technologies	3	62	3	65	11	4	15	73	7	80
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservation	3	61	13	74	15	5	20	76	18	94
Integrated nutrient management	1	20	3	23	3	2	5	23	5	28
Production of organic inputs	2	45	5	50	7	2	9	52	7	59
Others (pl specify)										
Total	12	254	29	283	51	18	69	305	47	352
II Horticulture										
a) Vegetable Crops										
Production of low value and										
high value crops										
Off-season vegetables	1	20	2	22	3		3	23	2	25
Nursery raising	1	19	4	23	4		4	23	4	27
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	2	39	6	45	7		7	46	6	52

b) Fruits	1									
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	1	25		25				25		25
Plant propagation techniques	1	23		23				23		23
Others (pl specify)										
Total (b)	1	25		25				25		25
c) Ornamental Plants	1	23		23				23		43
Nursery Management										
Management of potted plants										
Export potential of ornamental	<u> </u>									
plants										
Propagation techniques of										
Ornamental Plants										
Others (pl specify) Total ( c)										
d) Plantation crops										
Production and Management										
technology										
Processing and value addition										
Others (pl 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										
	<u> </u>									
Nursery management		-								
Production and management										
technology Post harvest technology and		-								
Post harvest technology and value addition										
Others (pl specify)		-								
Total (g)	2	<u> </u>	6	70	7	Λ	7	71	6	77
Grand Total (a to g)	3	64	6	70	1	0	7	71	U	77

III Soil Health and Fertility										
Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient										
Management	1	20	0	20	7	0	7	27	0	27
Production and use of organic										
inputs										
Management of Problematic										
soils										
Micro nutrient deficiency in										
crops										
Nutrient Use Efficiency										
Balance use of fertilizers	1	19	0	19	7	0	7	26	0	26
Soil and Water Testing	1	22	4	26	5	2	7	27	6	33
Others (pl specify)	1	22		20	5	-	,	27	0	55
Total	3	61	4	65	19	2	21	80	6	86
IV Livestock Production and	5	UI		05	17	4	41	00	U	00
Management										
Dairy Management	2	33		33	7		7	40		40
Poultry Management	2	55		55	,			40		-10
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	2	36		36	5		5	41		41
Feed & fodder technology	2	29		29	10		10	39		39
Production of quality animal		29		29	10		10	39		39
products	1		21	21		3	3		24	24
Others (pl specify)	1		21	21		5	5		27	27
Total	7	98	21	119	22	3	25	120	24	144
V Home Science/Women	,	70	41	11/		5	20	120	27	144
empowerment										
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										
Processing and cooking										
Gender mainstreaming through										
SHGs										
Storage loss minimization										
techniques										
Value addition										
Women empowerment										
Location specific drudgery										
reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										

VI Agril. Engineering										
Farm Machinery and its										
maintenance	1	21	0	21	2	0	2	23	0	23
Installation and maintenance of	1	21	0	21	2	0	2	23	0	23
micro irrigation systems	1	23	0	23	3	0	3	26	0	26
Use of Plastics in farming	1	23	0	23	5	0	5	20	0	20
practices	1	25	0	25	2	0	2	27	0	27
Production of small tools and	1	20	0	23		0		27	0	27
implements										
Repair and maintenance of farm										
machinery and implements										
Small scale processing and										
value addition										
Post Harvest Technology	1	15	0	15	0	0	0	15	0	15
Others (pl specify)	1	37	0	37	5	0	5	42	0	42
Total	5	121	0	121	12	0	12	133	0	133
VII Plant Protection										
Integrated Pest Management	3	72		72	2		2	74		74
Integrated Disease Management	3	60		60	3		3	63		63
Bio-control of pests and							_			
diseases										
Production of bio control										
agents and bio pesticides	1	22		22	1		1	23		23
Others (pl specify)	1	21		21	1		1	22		22
Total	8	175	0	175	7	0	7	182	0	182
VIII Fisheries										
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										
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										
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										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	38	773	60	833	118	23	141	891	83	974

# Farmers' Training including sponsored training programmes – CONSOLIDATED

# (On + Off campus)

Thematic area	No. of				P	articipar	nts			
	courses		Others			SC/ST		G	rand Tot	tal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	4	81	7	88	22	8	30	103	15	118
Resource Conservation										
Technologies	5	94	11	105	23	12	35	117	23	140
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop										
Management										

Soil & water conservation	3	61	13	74	15	5	20	76	18	94
Integrated nutrient		01	15	/+	15	5	20	70	10	74
management	1	20	3	23	3	2	5	23	5	28
Production of organic inputs	4	76	12	88	20	8	28	<u> </u>	20	116
Others (pl specify)	4	70	12	00	20	0	20	90	20	110
Total	17	332	46	378	83	35	118	415	81	496
I Horticulture	1/	334	40	3/0	03		110	415	01	490
a) Vegetable Crops										
Production of low value and										
high value crops										
Off-season vegetables	1	20	2	22	3		3	23	2	25
Nursery raising	1	19	4	22	4		4	23	4	27
Exotic vegetables	1	17	-	23	-		-	23	+	21
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	2	39	6	45	7		7	46	6	52
b) Fruits	4	39	U	43	/		/	40	U	54
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	19	4	23				19	4	23
	1	19	4	23				19	4	23
Management of young plants/orchards										
Rejuvenation of old										
orchards										
Export potential fruits										
Micro irrigation systems of										
orchards	1	25		25				25		25
Plant propagation	1	23		23				25		25
techniques	1	21	5	26				21	5	26
Others (pl specify)	1	21	5	20				21	5	20
Total (b)	3	65	9	74				65	9	74
c) Ornamental Plants		0.5	,	/ 4				00	,	74
Nursery Management										
Management of potted										
plants										
Export potential of										
ornamental plants										
Propagation techniques of				1						
Ornamental Plants										
Others (pl specify)										
Total ( c)										
d) Plantation crops										
Production and										
Management technology										
Processing and value				1						
addition										
Others (pl specify)										
Total (d)				1						
- VIII (11)		I I		I	l	I	l			I

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										
Post harvest technology and										
value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	5	104	15	119	7	0	7	111	15	126
III Soil Health and										
Fertility Management										
Soil fertility management	1	12	0	12	5	3	8	17	3	20
Integrated water										
management	1	15	5	20	7	2	9	22	7	29
Integrated Nutrient										
Management	1	20	0	20	7	0	7	27	0	27
Production and use of										
organic inputs										
Management of Problematic										
soils										
Micro nutrient deficiency in										
crops										
Nutrient Use Efficiency										
Balance use of fertilizers	1	19	0	19	7	0	7	26	0	26
Soil and Water Testing	1	22	4	26	5	2	7	27	6	33
Others (pl specify)										
Total	5	88	9	97	31	7	38	119	16	135
IV Livestock Production										
and Management										
Dairy Management	5	87		87	15		15	102		102
Poultry Management										
Piggery Management										
Rabbit Management										
				T	1			T		Γ
Animal Nutrition										

Disease Management	3	54		54	7		7	61		61
Feed & fodder technology	3	48		48	13		13	61		61
	5	40		40	15		15	01		01
Production of quality	•			10		2	_			1-
animal products	2	21	21	42	2	3	5	23	24	47
Others (pl specify)										
Total	13	210	21	231	37	3	40	247	24	271
V Home Science/Women										
empowerment										
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										
Processing and cooking										
Gender mainstreaming										
through SHGs										
Storage loss minimization										
techniques										
Value addition										
Women empowerment										
Location specific drudgery										
reduction technologies Rural Crafts										
Women and child care										
Others (pl specify) Total										
VI Agril. Engineering										
Farm Machinery and its	2	52	0	52	_	0	_	50	0	50
maintenance	2	53	0	53	5	0	5	58	0	58
Installation and										
maintenance of micro	•	-	0	-	-	0	-		0	
irrigation systems	2	50	0	50	6	0	6	56	0	56
Use of Plastics in farming			0			0	-		0	10
practices	2	36	0	36	6	0	6	42	0	42
Production of small tools										
and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of										
farm machinery and										
implements	1	21	0	21	2	0	2	23	0	23
Small scale processing and										
value addition	1	0	23	23	0	4	4	0	27	27
Post Harvest Technology	1	15	0	15	0	0	0	15	0	15
Others (pl specify)	3	84	6	90	10	1	11	94	7	101
Total	12	259	29	288	29	5	34	288	34	322
VII Plant Protection										
Integrated Pest Management	5	119	0	119	2	3	5	121	3	124
Integrated Disease										
Management	4	79	0	79	7	0	7	86	0	86
			-			-			-	

Bio-control of pests and	1	22	0	22	2	0	2	24	0	2.1
diseases	1	22	0	22	2	0	2	24	0	24
Production of bio control	2	10	0	10	2	0	2	40	0	40
agents and bio pesticides	2	46 21	0	46 21	2	0	2	48 22	0	48 22
Others (pl specify) Total	<u>1</u> 13	<b>21</b> <b>287</b>	0	<b>21</b> <b>287</b>	1 14	3	1 17	<u> </u>	3	<u> </u>
VIII Fisheries	15	201	U	201	14	3	1/	301	3	304
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										
Portable plastic carp										
hatchery Pen culture of fish and										
prawn Shuinn forming										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value										
addition										
Others (pl specify)										
Total										
IX Production of Inputs at										
site										
Seed Production										
Planting material production										
1										
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	L									
Nursery management	1									
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	65	1280	120	1400	201	53	254	1481	173	1654

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

	No. of				No. of	Particip	ants			
Area of training	~	(	General			SC/ST		(	Grand To	otal
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated farming	1	23	0	23	5	0	5	28	0	28
TOTAL	1	23	0	23	5	0	5	28	0	28

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

	No. of				No. o	f Partic	ipants			
Area of training	Courses	Gen	eral/ Otł	ners		SC/ST		G	rand To	tal
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated Nutrient management	2	25	5	30	8	3	11	33	8	41
TOTAL	2	25	5	30	8	3	11	33	8	41

## Sponsored training programmes

	No. of				No. of	f Partici	ipants			
Area of training	Courses	Ger	neral/Ot	hers		SC/ST		G	rand To	tal
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and										
management										
Increasing production and	1	31	0	31	4	0	4	35	0	35
productivity of crops										
Commercial production of										
vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops	1	20	0	20	3	0	3	23	0	23

Soil health and fertility										
management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	2	51	0	51	7	0	7	58	0	58
Post harvest technology and										
value addition										
Processing and value addition	1	0	23	23	0	4	4	0	27	27
Others (pl. specify)										
Total	1	0	23	23	0	4	4	0	27	27
Farm machinery										
Farm machinery, tools and	1	32	0	32	3	0	3	35	0	35
implements		32	0	32	3	0	3	55	0	55
Others (pl. specify)										
Total	1	32	0	32	3	0	3	35	0	35
Livestock and fisheries										
Livestock production and	1	24	0	24	2	0	2	26	0	26
management		24	0	24	Z	0	2	20	0	20
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total	1	24	0	24	2	0	2	26	0	26
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group										
Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL	5	107	23	130	12	4	16	119	27	146

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

Area of training	No. of Courses	No. of Participants								
		<b>General/Others</b>			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Organic farming	1	15	0	15	6	0	6	21	0	21
Total	1	15	0	15	6	0	6	21	0	21
Agricultural Extension										
Capacity building and group dynamics	4	217	1	218	10	1	11	227	2	229
Total	4	217	1	218	10	1	11	227	2	229
Grand Total	5	232	2	233	16	1	17	248	2	250

# 3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Other than KMAS)	10	19	1	20
Diagnostic visits	2	10	2	12
Field Day	6	131	2	133
Group discussions	4	61	-	61
Kisan Ghosthi	2	411	2	413
Film Show	1	51	1	52
Self -help groups	1	25	1	26
Kisan Mela	1	-	-	_
Exhibition	24	146	2	148
Scientists' visit to farmers field	12	23	2	25
Plant/animal health camps	1	13	1	14
Farm Science Club	-	-	-	_
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	3	22	1	23
Method Demonstrations	9	18	1	19
Celebration of world water day	1	47	2	49
Celebration of international women day	1	23	2	25
Celebration of honey bee day	1	25	2	27
Celebration of world milk day	1	31	1	32
Celebration of environment day	1	15	1	16
Celebration of food & nutrition day	1	46	1	47
Celebration of poshan maah	1	30	3	33
Celebration of Technology week	1	682	4	686
Priminister Programme	1	187	2	189
Celebration of swachta pakhwadia	3	78	3	81
Celebration National Pension day	1	32	3	35
Celebration of Mahila kisan diwas	1	30	3	33
Celebration of World food day	1	35	4	39
Celebgration of World soil day	1	70	3	73
Pradhanmantri Natural farming	1	156	3	159
Programme				
Celebration of Kisan Diwas	1	51	2	53
Celebration of world pulse day	1	65	4	69
Total	95	2533	59	2592

Note:- Advisory services includes social media, website, telephonic calls etc.

### **Details of other extension programmes**

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	1
Newspaper coverage	10
Popular articles	-
Radio Talks	-
TV Talks	-
Animal health camps (Number of animals treated)	1 (78)
Others (pl. specify)	-
Total	13

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training	Audio conferencing	Agriculture & Animal science	6	324
1		Video conferencing	Pre seasonal training kharif	1	53
2		Google meet	Pre seasonal training Rabi	1	57
3		Zoom	Care & management of livestock	1	68
	Total			9	502
В	Farmers scientist's interaction programme	Video conferencing	Plant protection	1	46
	Total			1	46
С	Farmers seminars Total	-	-	-	-
D	Expert lectures Total	-	-	-	-
Е	Any other (Pl. specify)				
1	With the help of KVK and Reliance Foundation, information about the precautions of Covid-19, Arogya setu app and information about the distribution of groundnuts by the university was given to the farmers who were connected by phone	Audio conferencing	-	1	2400
	Total			1	2400
	Grand Total (A+B+C+D+E)			11	2948

### 3.7. 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
Oilseeds	Groundnut (Breeder)	GJG-31	-	2650	-	-
	Groundnut (Breeder)	GJG-32	-	3000	-	-
	Groundnut (TF)	GJG-32	-	8200	-	-
	Groundnut (TF)	GJG-22	-	6000	-	-
Pulses	Chickpea (Foundation)	GJG-6	-	2880	-	-
Total				22730		

#### Production of seeds by the KVKs

# 4. LITERATURE DEVELOPED/PUBLISHED (with full title, author & reference)

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.) : Nil

### B. Literature developed/published

Item	Title	Authors name	Name & Number
Research	Incidence of Peste des petits	M. M. Tajpara, A.N.	International Journal of
papers	ruminants virus infection in small	Kanani, H.H.Savsani,	Current Microbiology &
	ruminants of saurashtra region of	J.B. Kathiriya,	Applied Sciences
	Gujarat state	P.V.Gohil, D.R. Patel	10(7): 257-269
		and N.M.Shah	July 2021
	Molecular Detection & Sequencing	M. M.Tajpara,	The Indian Journal of
	of peste des petits ruminants virus of	N.M.Shah, B.B. Javia,	Veterinary Science &
	saurashtra region of gujarat	D.B. Barad, U.V.	Biotechnology
		Ramani, D.R. Patel,	17(4): 17-22
		V.A.Kalaria	October 2021
	Evaluation of Blackgram [(Vigna	Mukul Kumar Gandhi,	International Journal of
	mungo (L.)] Genotypes for Saline	Abhay Kumar, <b>G. V.</b>	Environment and
	Tolerance at Seedling Stage Using	Marviya and Prasenjit	Climate Change
	Sea Water	Paul	11(10):136-145
			October 2021
	Productivity and economics of	D.S.Hirapara,	5 <sup>th</sup> International
	groundnut + castor (3:1)	P.D.Vekaria	Agronomy Congress
	intercropping system as influenced by		(Abstract)
	nutrient management under rainfed		November 2021
	condition of saurashtra region		
	Altered expression levels of	Feba Jacob, Mahesh	Plant Stress
	transcripts of GNAC TFs during	Mahatma, Yogita	3:1-8
	drought stress in susceptible and	Deshmukh, Umesh K.	January 2022
	tolerant cultivaras of groundnut	Kandoliya, <b>G. V.</b>	
		Marviya, Meera Joshi	
		and Ashish Vala	
Technical	Monthly, quart, Six monthly and	Junagadh Agri.	19
reports	Annual	University	
Others	Achievement and Endeavours of	KVK-Targhadia	Agri. Extn. Publication
	KVK Since inception		Series No.: 3-1-3
			August-2021

#### C. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel		
2	Facebook page/ Account		
3	Mobile Apps		
4	WhatsApp groups	4	112
5	Twitter Account		
6	Any other (Pl. Specify)		

**D.** Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

### 1) Higher Yield of Chickpea through seed production

Name of	Kanjibhai Ranchhodbhai Mendpara
Farmer:	-
Village :	Saal Pipaliya
Taluka :	Paddhari
District :	Rajkot
Mo. No.:	88490 39222
Age :	45 Years
Education :	10 <sup>th</sup> Pass
Land Holding :	6 Acre
Livestock :	Cows-2
<b>Crops Grown :</b>	Chickpea, Cotton, Groundnut,
	Cumin, Wheat



#### **Special Recognition:-**

Kanjibhai Ranchhodbhai Mendpara is a very progressive farmer Saal Pipaliya village of Paddhari Taluka. He always adopting new technologies to obtain higher production and maximum net return from the farming. He is known as "Father of Seed Production" in local farming community. He has large experience of seed production of various crops like Chickpea, Cumin, Green gram, Groundnut, Wheat etc. under guidance of Krishi Vigyan Kendra, Targhadia. He is farmer friend of Paddhari taluka and doing awareness for the use of organic products, adoption of Natural Farming for farming communities. He has also done better work for soil and water conservation and upliftment of Agriculture.

Kanjibhai has cultivated Chickpea crop in 5 Acre areas with all practices recommended by Junagadh Agricultural University. He is producing certified stage seeds of chickpea varieties GJG-3, GG-5, GJG-6 from last 5-6 years and getting 25-30 % more net return as compare to other crops. He obtained 1100 kg/acre production and earned Rs. 68,750/acre monetary return. He is providing seeds of chickpea to farmers and helping them to get more benefits from farming.





### 2) Introduction of New Crop Tobacco

Name of Farmer:	Chhaganbhai B. Ramani
Village :	Maliyasan
Taluka :	Rajkot
District :	Rajkot
Mo. No.:	97272 04040
Age :	60 Years
Education :	8 <sup>th</sup> Pass
Land Holding :	16 Acre
Livestock :	Cows-2, Bullock-2
<b>Crops Grown :</b>	Chickpea, Cotton, Groundnut,
	Cumin, Wheat, Leafy Vegetables,
	Tobacco



### Special Recognition:-

Chhaganbhai B. Ramani is a very progressive farmer of Maliyasan village of Rajkot Taluka. He is an innovative farmer and always try to do some new technology or crop in his field. He has large experience of vegetable and oilseed crop production. He came to know about new crop Tobacco in his local area which is main crop of middle Gujarat. He has collected seeds from Bidi Tobacco Research Station, Anand Agricultural University, Anand under guidance of Krishi Vigyan Kendra, Targhadia. Now a days, he has grown tobacco in 2 acre of land. He is the first to bring new crop in his area. Due to his efforts, nearby 50 acres of land converted into new crop tobacco cultivation. In his first year, he earned Rs. 1,90,000 from 1.6 acre area which is near about double income than routinely grown crops. So he is very popular in his area as an innovative farmer for tobacco crop cultivation.



- E. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year
  - Use of cow urine, butter milk, bajra flour etc for insect pest and disease management.
  - Use of small or wrinkle seeds of groundnut for sowing purpose.
  - Farmers grow maize as a mixed crop in groundnut and inter crop in cotton is best Practices for sucking pest management by attracting the natural enemies.
  - Cotton Stalk Shredder
  - Tractor mounted spryer
  - Chaff Cutter for Minimizing the Animal Fodder Waste
  - IPM in Cotton-Use of Trap crop, Pheromone trap, etc.
  - Minimizing the chemical Fertilizer and Maximizing organic manure.
  - Value addition in different agriculture crops like groundnut, sesame etc.
- **F.** Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Groundnut	Farmers maintain a set furrow system and apply manure and fertilizers every year in the same furrow.	To get residual effect of manure and fertilizers in succeeding crop
	Groundnut	Some farmers near the river bed, apply sand in the set furrow for increasing infiltration rate of the soil	To reduce the water Logging condition in the field
	Groundnut	Farmers grow maize as mix crop in groundnut	To increase natural enemies & fodder purpose
2	Kharif crops	Farmer apply life saving supplementary irrigation to the crops during moisture stress condition	For life saving irrigation to minimize the risk of crop failure
3	Cotton	Farmers grow Maize after 3-4 rows of cotton	To increase the natural enemies and fodder purpose
4	Cotton	After heavy rain, farmer apply irrigation to balance the salt concentration at top of soil	To balance the salt concentration
5	Livestock (Cow, Buffalo)	Use of salt in cotton seed cake Use of calcium carbonate in water tank	Increase milk production For control of bacterial infection and calcium deficiency
		Use of petrol and diesel in wound	For control of maggot wound

### 5.1. Indicate the specific training need analysis tools/methodology followed for

- A. Practicing Farmers: (a) Survey (b) Field survey (c) Group discussion
- **B. Rural Youth:** (a) Survey (b) Field survey (c) Group discussion
- C. In-service personnel: (a) Survey (b) Field survey (c) Group discussion

### 5.2. Indicate the methodology for identifying OFTs/FLDs

- **For OFT:** i) Field level observations, ii) Farmer group discussions
- or FLD : i) New variety/technology
  - ii) Poor yield at farmers level
  - iii) Existing cropping system

### 6. LINKAGES

### A. Functional linkage with different organizations

Name of organization	Nature of linkage
Dy. Director of Agriculture.	Most of the Organizations are members of
Dy. Director of Agril. Extension (FTC)	Scientific Advisory Committee (SAC) of
Dy. Director of Horticulture	KVK and have linkage with different
Dy. Director of Animal Husbandry	activities of KVK viz., Training
Dy. Director of Social Forestry	Programme, Khedut Sibir, Farmers day,
Jilla Udhyong Kendra	
Milk Co-Operative Society (Gopal Dairy)	Animal treatment Camp, Farmers fair,
Bank of Baroda	Film Show, Ex-training meeting and Soil
National Bank for Agriculture & Rural Development	health card etc.
NABARD)	
NHRDF	
Doordarshan Kendra	
All India Radio	
WALMI	
District Rural Development Agency(DRDA)	
ATMA	
GLDC	
District Watershed Development Agency (DWDA)	
GGRC	
Reliance foundation	
GSFC	
GNFC	
IFFCCO	
KRIBHCO	

**NB** The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

# **B.** List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Agricultural Technology Information	2004		635000/-
Center (ATIC)		Govt. of Gujarat	055000/
Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India	2016-17	ICAR-New Delhi	-
Cluster Frontline Demonstrations on Pulses under NFSM	2015-16	ICAR-New Delhi	180000/-
Cluster Frontline Demonstrations on Oilseeds under NMOOP	2015-16	ICAR-New Delhi	255000/-
Attracting and Retaining Youth in Agriculture (ARYA)	2015-16	ICAR-New Delhi	1565000/-
Paramparagat Krishi Vikas Yojana (PKVY)	2019	ICAR-New Delhi	660000/-

# C. Details of linkage with ATMA

Is ATMA implemented in your district : Yes

			No. of	No. of	Other
S. No.	Programme	Particulars	programmes attended by KVK staff	programmes Organized by KVK	remarks (if any)
01	Meetings	Staff meeting	2 stan		-
01	Research Projects	Starr meeting	2	-	
02	Training Programmes	Farmer training	9	3	-
04	Demonstrations	Technology demonstration	4	4	
05	Extension Programmes				
	KisanMela		-	-	-
	Technology Week		1	1	-
	Exposure visit		4	1	-
	Exhibition		-	-	
	Soil health camps		-	-	-
	Animal Health Campaigns		-	-	-
	Others (Natural farming		3	1	-
06	Publications				-
	Video Films				-
	Books				-
	Extension Literature				-
	Pamphlets				-
	Others (Pl. specify)				-
07	Other Activities (Pl.specify)				
	Watershed Approach Integrated Farm Development				-

# Coordination activities between KVK and ATMA

# D. Give details of programmes implemented under National Horticultural Mission : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

# E. Nature of linkage with National Fisheries Development Board : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

### F. Details of linkage with RKVY : Nil

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

### G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
	FLD on Wheat	-	0	34000	Fund received
	FLD on Chickpea	-	0	51600	Rs. 330000/-
	Telephone helpline	-	0	0	during 2019-20

### H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
	FLD, Training,	District Agri.			-
	Agro Advisory and	Department,	180000/-	129000/-	
	Literature distribute	Rajkot			

### I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

### 7. Convergence with other agencies and departments: Yes

### 8. Innovator Farmer's Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	No
	Brief report in this regard	

### 9. Farmers Field School (FFS) : Nil

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report

# 10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- 1. Reddening in cotton
- 2. Pink boll worm in cotton
- 3. Pod borer / wire worm and ear wing problem in groundnut in sporadic area
- 4. White grub damage was observed in groundnut in sporadic area
- 5. Infestation of stem rot, rust and tikka disease were observed in groundnut
- 6. Research needed for control of insect-pests and diseases in organic farming
- 7. Colletotricum fungus (Onion ring disease) in Kharif onion
- 8. Longer inter calving period in buffalo
- 9. Mastitis problem in cow and buffalo

# 10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/ universities:

- 1. Research needed for control of insect-pests and diseases in organic farming
- 2. Colletotricum fungus (Onion ring disease) in Kharif onion
- 3. Longer inter calving period in buffalo

### 11. Technology Week celebration during 2021: Yes

Period of observing Technology Week: From to 13<sup>th</sup> to 18<sup>th</sup> September 2021 Online / Offline: offline Total number of farmers visited : 682 Total number of agencies involved : 4 Number of demonstrations visited by the farmers within KVK campus: 6

### **Other Details**

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	-	-	
Lectures organized	12	682	Agronomy, plant protection, Livestock production and management
Exhibition	6	682	Agri equipment and demo unit
Film show	6	682	Crop and livestock technology
Fair	-	-	-
Farm Visit	6	682	Demo unit visit
Diagnostic Practical's	-	-	-
Supply of Literature (No.)	-	682	Pamphlet of agriculture and livestock
Supply of Seed (q)	-	-	
Supply of Planting materials(No.)	-	-	
Bio Product supply (Kg)	-	-	
Bio Fertilizers (q)	-	-	
Supply of fingerlings	-	-	
Supply of Livestock specimen (No.)	-	-	
Total number of farmers visited			
the technology week	-	682	

### 12. Interventions on drought mitigation (if the KVK included in this special programme): - Nil -

### 13. IMPACT

A. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill	No. of	% of	Change in income	( <b>Rs.</b> )
transferred	participants	adoption	Before	After
			(Rs./Unit)	(Rs./Unit)
Cumin Variety (GC-4)	243	85	30000	46000
Improved variety of Gram (GJG-3)	159	74	27500	36000
Wheat variety (GW-496, 366)	257	79	32500	37000
Use of Trichoderma culture powder	351	71	28125	31000
for the control of stem rot in				
groundnut				
Use of mineral mixture in buffalo	369	82	39000	44000

**NB:** Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

### **B.** Cases of large scale adoption

### (Please furnish detailed information for each case)

- Adoption of *Trichoderma* culture powder for the management of stem rot disease in groundnut
- Adoption of *Bt*. cotton varieties with INM and IPM concepts.
- Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20 and GJG-22.
- Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wilt disease
- Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies.
- Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for increasing the organic matter in soil particularly in *Bt*. Cotton cropping system

### C. Details of impact analysis of KVK activities carried out during the reporting period

### 14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which	No. of feedback / query
		SMS was sent	on SMS sent
Jan 2021	2	3000	
Feb 2021	2	3000	
March 2021	2	3000	
April 2021	2	3000	
May 2021	2	3000	
Jun 2021	2	3000	
Jul 2021	2	3000	
Aug 2021	2	3000	
Sept 2021	2	3000	
Oct 2021	2	3000	
Nov. 2021	2	3000	
Dec. 2021	2	3000	

		Type of Messages						
Name of KVK	Message Type	Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
	Text only	6	2	19	-	3	_	30
	Voice only							
	Voice &							
	Text both							
Rajkot-I	Total							
	Messages							
	Total							-
	farmers		3000	3000	-	3000	-	
	Benefitted							

# **15. PERFORMANCE OF INFRASTRUCTURE IN KVK**

SI.		Veen of	Aroo	Details	of produc	tion	Amou	nt (Rs.)	Remark
51. No.	Demo Unit	Year of establishment	Area (ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermi composting	2018	0.05	-	-	-	-	-	-
2	Nadep composting	2019	7 x 5 m	_	-	-	-	-	-
3	Crop cafeteria	2012	0.10						
4	Kitchen garden	2018	0.05	-	-	-	-	-	-
5	Organic farming	2016	1.00	-	-	-	-	-	-

### A. Performance of demonstration units (other than instructional farm)

# B. Performance of instructional farm (Crops) including seed production

Name	Date of Date of Sowing harvest			Deta	Amount (Rs.)		Rem arks		
of the crop	sowing	harvest	Aı (h	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
<b>Pulses:</b>									
Gram			2.00	GJG-6	Foundation	2880			
Oilseeds:									
Groundnut			1.80	GJG-31	Breeder	2650			
Groundnut			1.70	GJG-32	Breeder	3000			
Groundnut			4.65	GJG-32	TF	8200			
Groundnut			4.01	GJG-22	TF	6000			

# C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) : Nil

Sl.	<b>Bio Products</b>	Name of the	Qty	Amount (Rs.)		
No.		Product	(kg/lit)	Cost of inputs	Gross income	Remarks
1	<b>Bio-</b> Fertilizers					
2	<b>Bio-Fungicides</b>					
3	Bio- pesticides					
4	Bio-Agents					

### D. Performance of instructional farm (livestock and fisheries production) : Nil

SI.	Name	Detai	ls of production		Amount	Remarks	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

### E. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount	Expend	Details of		Activities conducted					Area
sanction (Rs.)	( <b>Rs.</b> )	created / micro	No. of Training programmes	No. of Demonst ration s	T	Visit by farmers (No.)	officials	harvested	irrigated / utilization pattern
60000	58000	Mini Sprinkler	2	2	-	62	2	-	4.00

### F. Performance of Nutritional Garden at KVK farm If Nutritional Garden developed at KVK farm/Village Level: Yes

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.1	Vegetable crops	25	193
	Fruit crops	3	
	Others if any	3	

### Nutritional Garden developed at KVK farm

### Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
5	Vegetable crops	25	50
	Fruit crops	5	
	Others if any	5	

### **16. FINANCIAL PERFORMANCE**

### A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host	SBI	Junagadh					
Institute							
With	SBI	Rajkot	463	TRAINING	10353003175	360002002	SBIN0000463
KVK				ORG.KVK.JAU.			
				TARGHADIA			

### B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh) (Till Dec, 2021)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	ecurring Contingencies			
1	Pay & Allowances	8200000	6845000	7488821
2	Traveling allowances			
3	Contingencies	1200000	801000	1013458
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
В	POL, repair of vehicles, tractor and Equipments			
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
Ε	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			

F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
Ι	Establishment of Soil, Plant & Water Testing			
	Laboratory			
J	Library			
	TOTAL (A)	9400000		
B. No	on-Recurring Contingencies		7646000	8502279
1	Works			
2	<b>Equipments including SWTL &amp; Furniture</b>			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)			
TOT	AL (B)			
C. RI	EVOLVING FUND			
GRA	ND TOTAL (A+B+C)	9400000	7646000	8502279

# C. Status of revolving fund (Rs. in lakh) for the four years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2018 to	25,78,697	25,57,179	24,79,409	26,56,467
March 2019				
April 2019 to	26,56,467	19,39,208	19,41,027	26,54,648
March 2020				
April 2020 to	26,54,648	20,91,275	15,42,336	35,15,340
March 2021				
April 2021 to	35,15,340	6,64,605	19,07,330	22,72,615
December, 2021				

# 17. Details of HRD activities attended by KVK staff during year

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/Of fline)	Dates
Dr. B. B. Kabaria	Senior Scientist & head	State level annual action plan workshop of KVK (Gujarat)	ATARI Pune	Online	18/02/21
Dr. M. M. Tajpara Dr. J. H. Chudhray Dr. M. K. Jadeja	Subject Matter Specialist	Participatory Programme & Planning, Monitoring, & Evaluation	EEI Anand	Online	9/03/2021 to 10/03/2021
Dr. M. M. Tajpara	Subject Matter Specialist	Annual Review workshop of TDC- NICRA KVK	ATARI Pune	Online	15/05/2021

		Organization of			
Dr. J. H. Chudhray	Subject Matter Specialist	Training Programme on Pulse with respect to seed Minikit Programme during Kharif 21	ATARI- Pune	Online	09/06/21
Dr. D. S. Hirpara	Senior Scientist & head	Online Annual zonal workshop of KVK Maharashtra, Gujarat, Goa	ATARI- Pune	Online	04/08/21 to 06/08/21
Dr. D. S. Hirpara	Senior Scientist & head	ARYA Project Team Meeting	ATARI- Pune	Online	27/08/21
Dr. M. M. Tajpara, Dr. J. H. Chudhray Dr. M. K. Jadeja D. P. Sanepara	Subject Matter Specialist	Use of Mass Media for Transfer of Technology	EEI Anand	Online	01/09/21 to 03/09/21
Dr. D. S. Hirpara	Senior Scientist & head (I/C)	Review Meeting of Pulse Seed hub	ATARI- Pune	Online	14/10/21
Dr. D. S. Hirpara	Senior Scientist & head (I/C)	ARYA Research Project Review meeting	ATARI- Pune	Online	22/11/21
Dr. D. S. Hirpara	Senior Scientist & head (I/C)	5 <sup>th</sup> International Agronomy Congress	PJTSAU, Hyderabad	Offline	23/11/21 to 27/11/21
Dr. M. M. Tajpara	Subject Matter Specialist (I/C)	Natural Farming Training	Adalaj, Gandhinag ar	Offline	26/11/21 to 01/12/21
Dr. M. K. Jadeja D. P. Sanepara	Subject Matter Specialist (I/C)	Presentation skills for professional excellence	JAU, Junagadh	Offline	01/12/21 to 03/12/21

# Details of Other Projects running at KVK, Rajkot-I

# I. Agricultural Technology Information Center (ATIC)

# Kharif-2021

### Area, technology demonstrated and performance of FLDs:

Sr.				Area	Demo. Yield (qt/ha)			Yield of local	Increase in yield	
No.	Enterprise	treated	v al lety	Farmers	(ha)	Н	L	Α	Check (qt/ha)	(%)
1	2	3	4	5	6	7	8	9	10	11
1	Groundnut	Variety &	GJG-22	50	20	23.20	18.15	20.60	17.90	15.08
		INM								

Econ	omics of demo	nstration (Rs./	Economics of check (Rs./ha)				
Gross	Gross	Net Return	BCR	Gross	Gross	Net	BCR
Cost	Return		( <b>R</b> /C)	Cost	Return	Return	( <b>R</b> / <b>C</b> )
12	13	14	15	16	17	18	19
40500	115360	74860	2.85	39300	100240	60940	2.55

# Rabi-2020-21

Area, technology demonstrated and input details:

						Demo.	Yield (	Qtl/ha	Yield	
Sr. No.	Crop/ Enterprise	Tech. Demons treated	Variety	No. of Farme rs		н	L	A	of local Check Qtl./ha	Increase in yield (%)
1	Chick pea	Varietal evaluation (GG-5)	GG-5	50	20	26.50	22.25	23.75	20.50	15.85

Econo	mics of demo	nstration (Rs./	'ha)	Economics of check (Rs./ha)				
Gross	Gross	Net Return	BCR	R Gross Gross Net Return B				
Cost	Return		( <b>R</b> /C)	Cost Return (R				
27500	121125	93625	4.40	26500	104550	78050	3.95	

# Details of training and other extension activities:

Nature of Extension Activity	No. of activities	<b>Total Participants</b>
On + Off campus Training	3	68
Kisan Ghosthi	2	53
Group meetings	2	38
Scientific visit to farmers field	3	27
Farmers visit to KVK	7	43
Extension Literature distribute	-	150

# II. Cluster Frontline Demonstrations on oil seeds under NMOOP

# Kharif-2021

Area, technology demonstrated and performance of CFLDs:

Sr.	Crop/	Tech. Demons	Vorioty	No. of	Area	a (qt/ha	Demo. Yield (qt/ha) of local			Increase in yield
No.	Enterprise	treated	v al lety	No. of Farmers	(ha)	Н	L	A	Check (qt/ha)	(%)
1	2	3	4	5	6	7	8	9	10	11
1	Groundnut	Variety &	GJG-22	50	20	23.75	18.75	21.25	18.50	14.86
		INM								

Ecor	nomics of demo	Economics of check (Rs/ha)					
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	BCR (R/C)		
12	13	14	15	16	17	18	19
40700	119000	78300	2.92	39500	103600	64100	2.62

### Summer-2021

Area, technology demonstrated and input details:

Sr	Crop/	Tech.		No. of		Demo. Yield Qtl/ha			Yield of	Increase
Sr. No.	Enterprise	Demons Va treated	Variety	Farm- ers	(ha.)/ No.	Н	L	A	local Check Qtl./ha	in yield (%)
1	Sesame	Sesame Variety G.Til-3	G.Til-3	50	20	11.75	9.50	10.50	8.95	17.32

Econor	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
Gross	Gross	Net	BCR	CR Gross Gross Net Return					
Cost	Return	Return	( <b>R</b> / <b>C</b> )	Cost	Return		( <b>R</b> / <b>C</b> )		
28500	78750	50250	2.76	27800	67025	39325	2.41		

### Details of training and other extension activities:

Sr. No.	Extension Activities	No. of activities	Number of Participant
1	On campus training	1	24
2	Off campus training	1	26
3	Field day	1	22
4	Telephone help line	-	27
5	Scientist visit to farmer's field	3	17

# III. Cluster Frontline Demonstrations on oil seeds under (NFSM)

### **Detail of FLDs**

Sr. No.	Сгор	Tech. Demons treated	Critical Inputs (Variety)	No. of Farmers	Area (ha.)/ No.		eld (q/ha) rage)	Increase in yield (%)
		ireateu			190.	Demo	Local	
1	Chickpea	Variety +	Seed of GJG-6 +					
		INM +	bio fertilizer +	50	20	24.00	20.00	20.00
		IDM +	Trichoderma +	50	20	24.00	20.00	20.00
		IPM	Behvaria					

Econ	omics of demon	stration (Re	s./ha)		Economics of c	heck (Rs./ha	a)
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
28000	122400	94400	4.37	26000	1,02,000	76000	3.92

## Trainings programs conducted

Sr. No	On/Off Campus	No. of Training Conducted	Total No. of Participants
1	On Campus	2	53
2	Off Campus	2	55

### Awareness programs / exposure visits / field days/Camps conducted

Sr. No.	Particulars	No. of Programmes	No. of participants
1	Agro advisory services	10	325
2	Literature Distributed	5	200

# IV. Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India

### **Overview of Seed Production :**

Year	Season	Total Production (kg)	Selling as certified seed (kg)	Amount Paid to farmers (Rs.)	Total Income (Rs.)	Difference (Loss/ Profit)
2020-21	Rabi	29600	-	1702000	1010000	692000
	Chickpea (GG-5)					
	Summer	2080	-	164320	-	-
	Green gram (GAM-5)					

# Trainings programs conducted

Sr. No	On/Off Campus	No. of Training Conducted	Total No. of Participants
1	On Campus	1	30
2	Off Campus	1	30

### Awareness programs / exposure visits / field days/Camps conducted

Sr. No.	Particulars	No. of Programmes	No. of participants
1	Agro advisory services	5	200
2	Literature Distributed	3	150

# V. Paramparagat Krishi Vikas Yojana (PKVY)

"PramparagatKrishiVikasYojana (PKVY)" a sub-component of Soil Health Management (SHM) scheme under National Mission of Sustainable Agriculture (NMSA) aims at development of sustainable models of organic farming through a mix of traditional wisdom and modern science to ensure long term soil fertility buildup, resource conservation and helps in climate change adaptation and mitigation..

### **Objectives of the Scheme :**

- To promote natural resource based integrated and climate resilient sustainable farming systems that ensure maintenance and increase of soil fertility, natural resource conservation, on-farm nutrient recycling and minimize dependence of farmers on external inputs.
- ✤ To sustainably produce chemical free and nutritious food for human consumption.
- To protect environment from hazardous inorganic chemicals by adoption of ecofriendly low cost traditional techniques and farmer friendly technologies.
- To empower farmers through their own institutional development in the form of clusters and groups with capacity to manage production, processing, value addition and certification management.

### 1. Performance of FLDs:

# (A) Frontline Demonstrations of *Rabi* Chickpea (2020-21)

	Taskasalasaa	No. of		<b>A</b>		%			
Crop	Crop Technology Demonstrated Variety No. of Area Farmers (ha)		Dem	10	Chash	Increase			
	Demonstrateu		r ai mei s	(114)	High	Low	Average	Check	in yield
Chickpea	Varietal+ INM+IDM+IPM	GJG-6	20	8	27	19	23	19	21.05

	No. of	Area	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Сгор	Farmers /demos	(ha)	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Chickpea	20	8	28400	117300	88900	4.13	25000	96900	71900	3.87

### (B) Frontline Demonstrations of Wheat (2020-21)

	Technology No. of Aug		<b>A</b>			%			
Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha)		Demo		Check	Increase
	Demonstrateu		r ar mer s	(11a)	High	Low	Average	Check	in yield
Wheat	Varietal+ INM+IDM+IPM	GW-451	20	8	55	49	52	45	15.55

	No. of	Area	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Сгор	Farmers /demos	(ha)	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Wheat	20	8	34000	110200	76200	3.24	31000	97000	66000	3.12

### 2. Others Extension Activities:

Sr.	Activity	No. of Participants
No.		
1	Training	2 (42)
2	Field day	1 (18)
3	Telephone help line	30
4	Farmers visit to KVK farm	30
5	Scientist visit to farmer's field	3 (40)

# VI. Attracting and Retaining Youth in Agriculture (ARYA)

The ARYA project was started during the year 2015-16 at KVK Rajkot-1, Gujarat. At present KVK, Rajkot-1 is working for four talukas of Rajkot district namely (i) Jasdan (ii) Padadhari (iii) Vinchhiya (iv) Rajkot. KVK, Rajkot-1 was identified for the objective of post-harvest technology, processing and value addition concept under ARYA project. Entrepreneurship development activities have been started with focus of processing, value addition, milk processing and nursery management.

### 1. Objectives of the ARYA Project:

- To attract and empower the youth in rural areas to take up various agriculture, allied and service sector enterprises for sustainable income and gainful employment in selected districts.
- To enable the farm youth to establish network groups to take up resources and capital intensive activities like post-harvest technology, processing & value addition, nursery management, milk processing and marketing.
- To demonstrate functional linkage with different institutions and stakeholders for convergence of opportunities available under various schemes/program for sustainable development of youth

### 2. Training and Skill Development Programmes:

Sr	Training	No. of Youth participated
1	Nursery management	22
2	Post-harvest technology and value addition	25

### 3. Establishment of Enterprises at different villages under ARYA Project:

The groups of youth having age of 18 to 35 years have been formed and established various enterprises in selected villages of Rajkot district.

Group 1: (15 youths): Enterprise of Mini Oil Mill Unit at Targhadi village of Paddhari talukas (*Enterprise: Year 2017-18*)

- Group 2: (15 youths): Enterprise of Mini Oil Mill Plant at Raningpar village of Jasdan talukas (*Enterprise: Year 2017-18*)
- Group 3: (7 youths): Pulverizer Machine Unit at Gadhaka village of Rajkot talukas (*Enterprise: Year 2017-18*)
- Group 4: (5 youths): Namkeen (Farsan) Machine at Targhadia village of Rajkot taluka (*Enterprise: Year 2017-18*)
- Group 5: (8 youths): Milk-Mava making unit at Amabardi village of Jasdan taluka (*Enterprise: Year 2017-18*)
- Group 6: (10 youths): Mini Dal Mill Unit at Sal Pipaliya village of Paddhari taluka (*Entrepreneurial : Year 2020*)
- Group 7: (10 youths): Mini Cleaning cum Grading Machine Unit at Dungarka village of Paddhari taluka (*Entrepreneurial : Year 20-20*)

Group 8: (2 youths): Nursery Unit at Gunda village of Rajkot taluka (Entrepreneurial: Year 2020)

### 4. Critical Inputs/Equipment/Machinery provided for various enterprise under ARYA :

- 1. Two Mini Oil Mill Units for processing of groundnut and other oilseeds (Rs. 3,61,200/- x 2 unit= Rs. 7,22,400/-)
- 2. One Pulverizer machine (Masala Mill) for processing of spices (Rs. 82,110/-)
- 3. One Namkeen (Farsan) making machine (Rs. 16,800/-)
- 4. One Milk-Mava making unit for milk processing (Rs. 63,000/-)
- 5. One Mini Dal Mill Unit (Rs. 1,62,000/-)
- 6. One Mini Cleaning cum Grading Machine Unit (Rs. 56,000/-)
- 7. One Nursery Unit (Rs. 24.050/-)

### 5. Brief about enterprise-wise interventions:

### 5.1 Mini Oil Mill Unit at Targhadi village of Paddhari taluka:

An entrepreneurial group of 15 rural youths in Taraghadi village started enterprise of Mini Oil Mill unit and producing groundnut oil through processing of groundnut. The group earning net profit of Rs. 1,74,800 per month by selling groundnut oil and cake. This enterprise is run more than 8 month during the year and earning net profit of Rs. 13,11,000 per year.

### 5.2 Mini Oil Mill Plant at Raningpar village of Jasdan taluka:

The group of 15 rural youths in Raningpar village is earning upto Rs. 1,42,025 per month through processing of groundnut by enterprise of mini oil mil plant. This enterprise is run more than 8 month during the year and earning net profit of Rs. 10,62,750 per year.

### 5.3 Entrepreneurship development through spices processing:

An enthusiastic group of 7 rural youths in Gadhaka village started enterprise of Spice processing unit and earning upto Rs. 61,500 per month. This enterprise is run more than 6 month during the year and earning net profit of Rs. 3,69,125 per year.

### 5.4 Entrepreneurship development through Namkeen (Farsan) making:

An entrepreneurial group of 5 youths at Targhadia village started Namkeen making enterprise. They making and selling Namkeen (Farsan) products and earning net profit of Rs. 3,90,000 per year.

### 5.5 Milk-Mava making at Ambardi village:

The active group of 8 youths at Ambardi village of Jasdan taluka started milk processing enterprise. They are producing milk-*mava* by processing of raw milk. The group generated net profit of Rs. 43,750 per month. This enterprise earning net profit of Rs. 4,37,500 per year.

### 5.6 Mini cleaning cum grading machine unit at Dungarka village of Paddhari taluka:

An entrepreneurial group of 8 rural youths in Dungarka village started enterprise Mini cleaning cum grading machine unit. This enterprise is run 5 month during the year and earning net profit of Rs. 2,80,000 per year.

### 5.7 Mini Dall Mill unit at Sal Pipaliya village of Paddhari taluka:

An entrepreneurial group of 10 rural youths in Sal Pipaliya village started enterprise Mini Dall Mill unit. This enterprise is run 6 month during the year and earning net profit of Rs. 3,90,000 per year.

#### 5.8 Nursery unit at Gunda village of Rajkot taluka:

An entrepreneurial group of 4 rural youths in Gunda village started enterprise Nursery unit. This enterprise earning net profit of Rs. 1,80,000 per year.

# VII. Mera Gaon Mera Gaurav (MGMG)

On the basis of agro climatic conditions, soil types, and cropping pattern; Gujarat has been divided into eight agro climatic zones. Rajkot district falls under North Saurashtra Agro climatic Zone. The total geographical area of North Saurashtra Agro Climatic Zone is 35.2 Lack ha. Out of total area, 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Rajkot district is medium in their availability of nitrogen while low in phosphorus and high in available potash except the available phosphorus and potash is in medium category in adopted villages. Monsoon commences usually by the middle of June and withdraws by middle of September. Average annual rainfall of districts is 1214.6 mm. Monsoon in this area commences in the end of June and retreats by the middle of September. Most of the precipitation is received from South – West monsoon, concentrating in the month of July and August. The maximum rainfall and number of rainy days are observed in July. The winter season sets by the end of October. This district is situated near seashore hence; there are no drastic fluctuations in the temperature. The average maximum and minimum temperatures are 42.0° C and 16.9 °C respectively. Overall climate of this station is humid and convenient for coastal crops

The main crops of the region are groundnut, cotton, wheat, cumin, onion, garlic, castor, green gram, black gram, pearl millet, etc.

Seasonal vegetables are also grown in limited area. Lift irrigation through tube well & dug well are the main sources of irrigation.

Sr. No.	Name of Institute	Total No. of Group	No. of Scientist Involved	No. of Village covered
1	KVK, JAU, Targhadia	2	6	10

#### Activities organized by KVK-Targhadia, Rajkot-I under MGMG

S. No.	Name of activity	No. of activities conducted	No. of benefitted
1	Visit to village by teams	1	28
2	Interface meeting/ Goshthies	2	31
3	Training organized	3	87
4	Mobile based advisories	4	113
5	Literature Support Provided	4	128