

**PROFORMA FOR PREPARATION OF ANNUAL REPORT of KVK, Pali  
(January - December, 2022)**

**APR SUMMARY**

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

**1. Training Programmes**

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	72	1231	351	1582
Rural youths	14	218	75	293
Extension functionaries	2	35	6	41
Sponsored Training	18	307	139	446
Vocational Training	5	84	26	110
<b>Total</b>	<b>111</b>	<b>1875</b>	<b>597</b>	<b>2472</b>

**2. Frontline demonstrations (including CFLDs on Oilseeds and Pulses under NFSM)**

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	140	70	0
Pulses	100	50	0
Cereals	35	15	0
Vegetables	20	5.2	0
Other crops	30	10	0
Hybrid crops	0	0	0
<b>Total</b>	<b>325</b>	<b>150.2</b>	
Livestock & Fisheries	15	0	25
Other enterprises	85	0	85
<b>Total</b>	<b>100</b>	<b>0</b>	<b>110</b>
<b>Grand Total</b>	<b>425</b>	<b>150.2</b>	<b>110</b>

**3. Technology Assessment**

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	6	18	18
Livestock	-	-	-
Various enterprises	-	-	-
<b>Total</b>	<b>6</b>	<b>18</b>	<b>18</b>
<b>Grand Total</b>	<b>6</b>	<b>18</b>	<b>18</b>

**4. Extension Programmes**

Category	No. of Programmes	Total Participants
Extension activities	1135	19033
Other extension activities	7	173
<b>Total</b>	<b>1142</b>	<b>20206</b>

## 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Pali	Text only	52	20	118	25	27	30	272
	Voice only	0	0	0	0	0	0	0
	Voice & Text both	0	0	0	0	0	0	0
	<b>Total Messages</b>	52	20	118	25	27	30	272
	<b>Total farmers Benefitted</b>	685	94	6700	450	250	336	11264

## 6. Seed &amp; Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	151.03	11,34,710
Planting material (No.)	71972	437231
Bio-Products (kg)	28,844	3,47,990
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

## 7. Soil, water &amp; plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	105	0
Water	82	0
Plant	0	0
<b>Total</b>	<b>187</b>	<b>0</b>

## 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	03
3	Meetings	07
4	Trainings for KVK officials	05
5	Visits of KVK officials	06
6	Book published	02
7	Training Manual	02
8	Book chapters	11
9	Research papers	08
10	Lead papers	02
11	Seminar papers	07
12	Extension folder	9
13	Proceedings	02
14	Award & recognition	01

## DETAIL REPORT OF APR-2022 of KVK, Pali

**1. GENERAL INFORMATION ABOUT THE KVK**

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

Address	Telephone		E mail
	Office	FAX	
CAZRI KRISHI VIGYAN KENDRA, PALI-MARWAR, PIN: 306 401 (Rajasthan)	02932- 256771	02932- 256771	<a href="mailto:cazrikvcpali@gmail.com">cazrikvcpali@gmail.com</a>

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

Address	Telephone		E mail
	Office	FAX	
Central Arid Zone Research Institute, Jodhpur	0291- 2786584	0291- 2788706	<a href="mailto:director.cazri@icar.gov.in">director.cazri@icar.gov.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Dheeraj Singh	-	9414194005	<a href="mailto:dheerajthakurala@yahoo.com">dheerajthakurala@yahoo.com</a> , <a href="mailto:dheeraj.singh@icar.gov.in">dheeraj.singh@icar.gov.in</a>

## 1.4. Year of sanction: 1992

1.5. Staff Position (as on 31<sup>st</sup> December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Dheeraj Singh	Programme Coordinator	Horticulture	Level-14	182700	19.9.2008	Permanent	Gen.	-	-	-
2	Subject Matter Specialist	Dr. M. K. Chaudhary	T-9 (SMS)	Agronomy	Level-12	126600	30.11.1996	Permanent	Gen.	-	-	-
3	Subject Matter Specialist	-	T-6 (SMS)	Agril. Extn.	-	-	-	-	ST	-	-	-
4	Subject Matter Specialist	Dr. Aishwarya Dudi	T-9 (SMS)	Home Science	Level-11	94100	9.8.2007	Permanent	OBC	-	-	-
5	Subject Matter Specialist	-	T-7-8 (SMS)	Animal Science	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Dr. A. S. Tatarwal	T-7-8 (SMS)	Plant Protection	Level-11	76200	24.04.2021	Permanent	Gen.	-	-	-
7	Subject Matter Specialist	Dr. Chandan Kumar	T-6 (SMS)	Horticulture	Level-11	74000	22.2.2014	Permanent	OBC	-	-	-
8	Programme Assistant	-	T-4	-	-	-	-	-	-	-	-	-
9	Computer Programmer	Sh. P. K. Tomar	T-5 (Comp.)	Computer	Level-7	56900	5.11.2008	Permanent	Gen.	-	-	-
10	Farm Manager	-	T-4	-	-	-	-	-	-	-	-	-
11	Accountant / Superintendent	-	-	-	-	-	-	-	-	-	-	-
12	Stenographer	-	-	-	-	-	-	-	-	-	-	-
13	Driver	-	T-1	-	-	-	-	-	-	-	-	-
14	Driver	Mahendra Kumar	T-2 (Driver)	-	Level-4	28700	19.01.2015	Permanent	SC	-	-	-
15	Supporting staff	Sh. Tara Ram	Cook	-	Level-2	39800	30.11.1996	Permanent	ST	-	-	-
16	Supporting staff	Sh. Bhola Ram	R/ M	-	Level-2	37200	30.11.1996	Permanent	ST	-	-	-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	00.5
2.	Under Demonstration Units	01.0
3.	Under Crops	20.0
4.	Orchard/Agro-forestry	03.0
5.	Others (specify)	15.5
	<b>Total</b>	<b>40.0</b>

1.7. Infrastructural Development:

## C) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	9.8.1998	715.7	2200000	-	-	-
2.	Farmers Hostel	ICAR	9.8.1998	329.5	1150000	-	-	-
3.	Staff Quarters	-	-	-	-	-	-	-
4.	Demonstration Units (6)	External	-	-	-	-	-	-
5	Fencing	ICAR	50 yrs old	-	-	-	-	-
6	Rain Water harvesting system	NABARD	12.11.2010	118.81	1000000	-	-	-
7	Automatic Weather Station	NHM	2012	-	283950	-	-	-
8	Threshing floor	Nil	-	-	-	-	-	-
9	Farm godown	Nil	-	-	-	-	-	-

## B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	1994	1,87,801	-	Need replacement
Jeep	2012	5,54,000	138119 Kms	Working condition
Tractor	2018	4,64,000	1257.2 Hrs	Working condition
Tractor	2019	7,86,000	741.8 Hrs	Working condition

## C) Equipment &amp; AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer with printer	1998	85754	Not in working condition
Overhead Projector	1998	31900	Not in working condition
LCD with Screen	2006	77500	Not in working condition
Laptop with multimedia	2006	52000	Not in working condition
Multi-function photo copier	2008	74500	Not in working condition

Multi-function Fax machine	2009	15000	Not in working condition
Generator (Honda)	2010	42930	Working condition
Seed grading machine	2010	2400000	Working condition
Computer	2010	49500	Working condition
Laptop	2012	49675	Working condition
Printer	2013	14400	Working condition
Tablet	2013	14900	Working condition
Rotavator	2019	89700	Working condition
Cultivator	2019	39500	Working condition
Power tiller	2019	220000	Working condition
Power Weeder	2019	98000	Working condition
Reversible MB Plough	2019	138000	Working condition
Sprayer	2019	99700	Working condition
Multi crop planter	2019	135000	Working condition
Happy seeder	2019	169500	Working condition
Reaper cum binder	2019	494000	Working condition
Disc plough	2019	39500	Working condition
Laser land leveler	2019	315000	Working condition
Thresher	2019	475000	Working condition
Solar based pump set	2019	378000	Working condition
Orchard Sprayer	2021	200000	Working condition
Camera	2021	50000	Working condition

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

Date	Name and Designation of Participants	Salient Recommendations	Action taken
8 Oct., 2021	<p>बैठक में निम्नलिखित पदाधिकारी एवं सदस्यगण उपस्थित थे :-</p> <ol style="list-style-type: none"> <li>डॉ. ओ.पी. यादव, निदेशक, काजरी, जोधपुर</li> <li>डॉ. एस.के. सिंह, निदेशक, अटारी, जोधपुर</li> <li>डॉ. ए.के. शुक्ल, अध्यक्ष, आर.आर. एस. काजरी, पाली</li> <li>डॉ. आर. एस. मेहता, प्रधान वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. धीरज सिंह, अध्यक्ष, केवीके, पाली</li> <li>डॉ. बी.एस. राठौड़, अध्यक्ष, केवीके, जोधपुर</li> <li>डॉ. मनीष कामत, अध्यक्ष, केवीके, भुज</li> <li>डॉ. सीता राम मीणा, वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. एम.बी. नूर, वैज्ञानिक, आर.आर. एस. काजरी, पाली</li> <li>डॉ. कमला चौधरी, वैज्ञानिक, आर. आर.एस. काजरी, पाली</li> <li>डॉ. मनोज पंवार, वरिष्ठ चिकित्सा</li> </ol>	<p>डॉ. ओ.पी. यादव, निदेशक, काजरी, जोधपुर ने सुझाव दिये कि—</p> <ul style="list-style-type: none"> <li>➤ कृषि विज्ञान केंद्र को अतिरिक्त बजट के लिए अपने स्तर पर प्रोजेक्ट बनाकर अलग-अलग संस्थानों से संपर्क करना चाहिए।</li> <li>➤ कृषि विज्ञान केंद्र को किसानों के लिए अपने केंद्र पर स्थानीय मांग के अनुरूप बीज उत्पादित करना चाहिए।</li> <li>➤ कृषि विज्ञान केंद्र को नई तकनीक हेतु आवश्यक प्रदर्शन इकाई स्थापित करनी चाहिए तथा किसानों को उस पर प्रशिक्षण दिया जाना चाहिए।</li> </ul>	<ul style="list-style-type: none"> <li>➤ इस दिशा में समुचित कार्य किया गया है।</li> <li>➤ केंद्र ने मांग के अनुरूप गेहूँ, चना, सरसों, मूंग का बीज उत्पादन किया है।</li> <li>➤ केंद्र पर नई प्रदर्शन इकाई मुर्गी पालन तथा ड्रैगन फ्रूट की स्थापित की गई है तथा उनको प्रशिक्षण कार्यक्रम में समाहित किया गया है।</li> </ul>
	<p>डॉ. एस. के. सिंह, निदेशक, अटारी, जोधपुर</p> <ul style="list-style-type: none"> <li>➤ ओ एफ टी में मुख्य फसल के साथ पाए जाने वाले कीड़े तथा खरपतवार का विस्तृत वर्णन किया जाना चाहिए।</li> <li>➤ प्रशिक्षण का शीर्षक स्पष्ट होने चाहिए तथा लेसन प्लान का समावेश होना</li> </ul>	<ul style="list-style-type: none"> <li>➤ निर्देशानुसार कार्य किया जा रहा है।</li> <li>➤ प्रशिक्षण को लेसन प्लान के अनुसार आयोजित किया जा रहा है तथा</li> </ul>	

<p>12. डॉ. रोटे, वरिष्ठ चिकित्सा अधिकारी, पशुपालन विभाग, पाली</p> <p>13. श्री विनोद दधीच, जिला विकास प्रबंधक, नाबार्ड, पाली</p> <p>14. श्री जितेन्द्र भाखर, क्षेत्रीय प्रबंधक, ईफको, पाली</p> <p>15. श्री कैलाश चंद्र, उप परियोजना निदेशक आत्मा, पाली</p> <p>16. डॉ. एम. के. चौधरी, विषय विशेषज्ञ, सस्य, के.वी.के. पाली</p> <p>17. डॉ. ऐष्वर्य डूडी, विषय विशेषज्ञ, गृह विज्ञान, के.वी.के. पाली</p> <p>18. डॉ. चन्दन कुमार, विषय विशेषज्ञ, उद्यान, के.वी.के. पाली</p> <p>19. डॉ. ए.एस. तेतरवाल, विषय विशेषज्ञ, पौध संरक्षण, के.वी.के. पाली</p> <p>20. डॉ. पूनम कलश, विषय विशेषज्ञ, केवीके, जोधपुर</p> <p>21. श्री आर.आर. मेघवाल, केवीके, जोधपुर</p> <p>22. श्री पी.के. तोमर, तकनीकी अधिकारी, कम्प्यूटर, के.वी.के. पाली</p> <p>23. श्री भंवर सिंह, कृषक, गिरादरा, पाली</p> <p>24. श्री काना राम पटेल, कृषक, मानपुरा, पाली</p> <p>25. श्री सत्यनारायण, कृषक, बामनेरा, पाली</p> <p>26. श्री मनोहर लाल, कृषक, सिंधियों की ढाणी, पाली</p> <p>27. श्रीमती कंचन वैष्णव, कृषक, बोमादरा, पाली</p> <p>28. श्री देदा राम, कृषक, गांव—गाजनगढ़, पाली</p>	<p>अधिकारी, पशुपालन विभाग, पाली</p> <p>चाहिए। हरेक कार्यक्रम में महिलाओं की हिस्सेदारी स्पष्ट होनी चाहिए।</p> <p>➤ गृह विज्ञान में कृषि संबंधित उपक्रमों पर विशेष ध्यान दिया जाना चाहिए तथा प्रथम पंक्ति प्रदर्शन में हर प्रदर्शन में अन्य विषय विशेषज्ञ के साथ महिलाओं को भी शामिल किया जाए।</p> <p>➤ संरक्षित कृषि का क्षेत्रफल बढ़ रहा है अतः इस पर प्रशिक्षण आयोजित किए जाएँ।</p> <p>डॉ. मनोज पंवार, वरिष्ठ चिकित्सा अधिकारी, पशुपालन विभाग, पाली</p> <p>➤ केंद्र पर बकरी तथा भेड़ संबंधित कार्यक्रमों की कमी है तथा पशुपालन पर विशेष ध्यान देने की सख्त जरूरत है</p> <p>श्री विनोद दधीच, जिला विकास प्रबंधक, नाबार्ड, पाली</p> <p>➤ कृषि विज्ञान केंद्र विकास के लिए नाबार्ड को प्रोजेक्ट सबमिट करे।</p> <p>श्री देदा राम, कृषक, गांव—गाजनगढ़, पाली</p> <p>➤ संरक्षित नमी पर उगने वाली किस्मों का चयन किया जाये और किसानों को इसके प्रयोग के लिये प्रोत्साहित किया जाये।</p> <p>श्री भंवर सिंह, कृषक, गिरादरा, पाली</p> <p>➤ किसानों को नयी व उन्नत कृषि मशीनरी और नवीनतम बीजों से अवगत कराया जाना चाहिये।</p> <p>श्रीमती कंचन वैष्णव, कृषक, बोमादरा, पाली</p> <p>➤ गृह वाटिका हेतु जैविक कीट तथा बीमारी नियंत्रण के उपाय बताने चाहिए तथा खारे पानी में उगनी वाली सब्जियों पर ध्यान देना चाहिए।</p>	<p>महिलाओं की हिस्सेदारी बढ़ायी जा रही है।</p> <p>➤ कृषि संबंधित उपक्रमों पर ध्यान दिया गया है तथा उसमें नाबार्ड तथा अन्य बैंकों को भी समाहित किया गया है।</p> <p>➤ संरक्षित कृषि तथा प्राकृतिक खेती को बढ़ावा दिया जा रहा है तथा इनकी प्रदर्शनी इकाई भी केंद्र पर स्थापित की गई है।</p> <p>➤ केंद्र इस दिशा में पशुपालन विभाग के साथ संयुक्त प्रयास कर रहा है।</p> <p>➤ निर्देशानुसार कार्य कर लिया गया है।</p> <p>➤ चने में आर एस जी 974 और सरसों में उर्वशी को बढ़ावा दिया गया है।</p> <p>➤ निर्देशानुसार कार्य कर लिया गया है।</p> <p>➤ निर्देशानुसार कार्य कर लिया गया है तथा पालक, चंदलाई, चुकंदर, पत्ता गोभी तथा बैंगन पर विशेष ध्यान दिया गया है।</p>
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**2. DETAILS OF DISTRICT (2022)****2.1 Major farming systems/enterprises (based on the analysis made by the KVK)**

S. No	Farming system/enterprise
1.	Rainfed- Rohat and Pali tehsils
2.	Mainly canal command area and partially well irrigated- Sumerpur, Bali, Desuri
3.	Mainly well irrigated and partially canal command- Sojat, Raipur, Jaitaran and Marwar Jn. Tehsils

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

S. No	Agro-climatic Zone	Characteristics
1.	Transitional Plain of Luni Basin	This area lies between the Aravalli ranges and western arid region. The region has semi-arid climate with an annual rainfall of 30 to 50 cm. It is drained by the river Luni which is seasonal and flows only during rainy season. A number of paleo-channels also exist in this area. The western part of this region is dotted with sand dunes, interspersed in alluvial soil. Luni and its several tributaries like Sukri, Mithri and Jawai have made this area productive. The climatic conditions are almost the same as in the western arid region except that the rainfall is slightly higher. Groundwater level is high in the river basins, and has been usefully tapped for irrigation. Vegetation is xerophytic and sparse in the western part but in the east and on the slopes of the Aravalli ranges, there is mesophytic vegetation in the form of woodland, open forest and grasslands. The area produces bajra, maize, guar, sesame and pulses in the kharif season. In the rabi season wheat, barley and mustard are the dominant crops, specially in the irrigated area.
2.	Semi-arid transitional plain	The semi-arid transitional plain lies roughly between eastern margins of western desert and western foothills of Aravalli. It is formed of alluvium deposits laid by Luni, Gaggar, Saraswati, Chouthan and Sutlej River system. However, from western arid region the slope generally run from east to west and north to south. The north eastern part of the region has a general elevation of about 300 meters above M.S.L. but towards the south the elevation is about 150 meters except in Jalore, Sivana upland with lies above 300 meters. In eastern semi-arid plain, the topography is varied as a result, the region presents queer and confused amalgam of low land upland topography

**2.3 Soil type/s**

S. No	Soil type	Characteristics	Area in ha
1.	Typic Torripsammments <i>Ustochreptic Camborthids</i> (Map Unit 114)	Very deep, well drained, sandy soils on gently sloppy plains with sandy surface, severely eroded, associated with: Very deep, well drained coarse loamy soil, severely eroded, slightly saline	205900
2.	Typic Camborthids <i>Typic Camborthids</i>	Very deep, well drained, coarse loamy soil on very gently sloping plain with sandy surface, moderately	196300



	(Map Unit 122)	eroded, associated with: Shallow, well drained, fine loamy soil, slightly eroded, slightly saline	
3.	Typic Camborthids <i>Typic Camborthids</i> (Map Unit 129)	Moderately shallow, well drained, fine loamy soils on nearly level plain with loamy surface, slightly eroded, associated with: Moderately shallow, well drained, fine soils, moderately eroded, moderately saline.	140200
4.	Typic Camborthids <i>Typic Camborthids</i> (Map Unit 125)	Very deep, moderately well drained, coarse loamy soils, on very gently sloppy aeofluvial plains of luni basin with sandy surface, moderate erosion associated with: very deep, well drained, coarse loamy soils on very gently sloppy aeofluvial plains of luni basin with slight erosion slightly saline and sodic	132200

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

S. No	Crop	Area (ha)	Production (q)	Productivity (q /ha)
1.	Sorghum	107755	546660	5.07
2.	Pearl millet	95437	467610	4.90
3.	Maize	22589	147260	6.52
4.	Sesame	84716	458820	5.42
5.	Green gram	59262	303530	5.12
6.	Mothbean	7139	14170	1.95
7.	Clusterbean	50699	358740	7.08
8.	Cotton	3268	26410	8.08
9.	Mustard	65883	915990	13.90
10.	Wheat	77302	1382710	17.89
11.	Barley	4065	73110	17.99
12.	Gram	30065	293690	8.62
13.	Cumin	5797	25630	4.42

Source: DOA, Pali 2021

#### 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
Jan.-22	0.0	25.0	6.0	75.6
Feb.-22	0.0	31.3	11.5	53.5
March-22	0.0	36.8	18.1	47.5
Apr.-22	0.0	40.0	22.0	36.5
May-22	0.0	39.3	26.5	48.3
June-22	22.0	38.0	27.6	55.3
July-22	140.0	36.4	28.0	77.6
Aug.-22	62.0	35.0	26.6	84.5
Sept.-22	42.0	33.0	25.5	83.6
Oct.-22	0.0	34.1	20.1	64.2
Nov.-22	0.0	30.8	12.7	62.7
Dec.-22	0.0	22.5	8.4	63.9

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	2485	N.A.	N.A.
<i>Indigenous</i>	413549	47000	2.79
<b>Buffalo</b>	313531	195000	4.29
<b>Sheep</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	1360904	1848107*	1.358**
<b>Goats</b>	605755	29000	0.57
<b>Pigs</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	13429	N.A.	N.A.
<b>Rabbits</b>	90	N.A.	N.A.
<b>Poultry</b>			
Hens	-	-	-
<i>Desi</i>	73467	N.A.	N.A.

Note: \* Wool production in kg

\*\* Wool productivity in kg

Source: Office of Deputy Director (Animal Husbandry), District Pali

**2.7 Details of Operational area / Villages (2022)**

S..No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Rohat	Rohat	<ul style="list-style-type: none"> <li>• Rana</li> <li>• Gajangarh</li> <li>• Malva</li> </ul>	<ul style="list-style-type: none"> <li>• Green gram,</li> <li>• Mothbean,</li> <li>• Sorghum,</li> <li>• Sesame</li> <li>• Pearl millet</li> <li>• Cowpea</li> </ul>	<ul style="list-style-type: none"> <li>• High intensity of weed</li> <li>• Low yield due to low rainfall</li> <li>• Fodder scarcity</li> <li>• Low soil fertility</li> </ul>	Rainfed farming
2	Pali	Pali	<ul style="list-style-type: none"> <li>• Hemawas</li> <li>• Giradara</li> <li>• Mandiya</li> <li>• Kerla</li> </ul>	<ul style="list-style-type: none"> <li>• Mustard</li> <li>• Gram,</li> <li>• Wheat,</li> <li>• Barley</li> <li>• Sesame,</li> <li>• Green gram,</li> <li>• Sorghum</li> <li>• Cowpea</li> </ul>	<ul style="list-style-type: none"> <li>• Saline soil</li> <li>• Low rainfall</li> <li>• Fodder scarcity</li> <li>• High density of weed</li> </ul>	Rainfed farming

3	Sumerpur	Sumerpur	<ul style="list-style-type: none"> <li>• Dujana</li> <li>• Sanderav</li> <li>• Dhola</li> <li>• Bamnera</li> </ul>	<ul style="list-style-type: none"> <li>• Wheat</li> <li>• Mustard</li> <li>• Chickpea</li> <li>• Cumin</li> <li>• Castor</li> <li>• Cotton</li> <li>• Sorghum</li> <li>• Greengram</li> <li>• Sesame</li> </ul>	<ul style="list-style-type: none"> <li>• Low soil fertility</li> <li>• High weed intensity</li> <li>• Saline soil</li> <li>• Poor irrigation facility</li> </ul>	Rainfed farming
4	Bali	Bali	<ul style="list-style-type: none"> <li>• Beda</li> <li>• Nana</li> <li>• Koyalvav</li> </ul>	<ul style="list-style-type: none"> <li>• Maize</li> <li>• Sorghum</li> <li>• Mustard</li> <li>• Wheat</li> <li>• Sesame</li> </ul>	<ul style="list-style-type: none"> <li>• Low rainfall</li> <li>• Undulated land and hilly area</li> <li>• Small size of land holding</li> <li>• Poor irrigation facility</li> </ul>	Rainfed farming
5	Desuri	Desuri	<ul style="list-style-type: none"> <li>• Khetlaji</li> <li>• Nadol</li> </ul>	<ul style="list-style-type: none"> <li>• Maize</li> <li>• Sorghum</li> <li>• Sesame</li> <li>• Greengram</li> <li>• Mustard</li> <li>• Wheat</li> </ul>	<ul style="list-style-type: none"> <li>• Undulated land and hilly area</li> <li>• Small size of land holding</li> <li>• Poor irrigation facility</li> </ul>	Rainfed farming
6	Rani	Rani	<ul style="list-style-type: none"> <li>• Rani</li> <li>• Bijova</li> <li>• Varkana</li> </ul>	<ul style="list-style-type: none"> <li>• Cotton</li> <li>• Mustard</li> <li>• Wheat</li> <li>• Chickpea</li> <li>• Greengram</li> <li>• Sorghum</li> </ul>	<ul style="list-style-type: none"> <li>• Low soil fertility</li> <li>• High weed intensity</li> <li>• Unavailability of irrigation facility</li> <li>• Low rainfall</li> </ul>	Rainfed farming

## 2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Chickpea	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Introduction of raifed variety like RSG 974</li> <li>• Integrated disease management (Fusarium wilt, dry root rot)</li> <li>• Integrated insect-pest management (Pod borer, Helicoverpa, cut worm, agrotis sp.)</li> </ul>
Mustard	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Demonstration of salinity tolerant variety CS 54</li> <li>• Integrated nutrient management</li> <li>• Management of orobanchae by crop protection</li> <li>• Integrated insect-pest management (mustard saw fly, aphid and painted bug infestation)</li> </ul>
Wheat	<ul style="list-style-type: none"> <li>• Dissemination of salt tolerant variety like KRL 210/KRL 213</li> <li>• Introduction of high yielding variety DBW 187/Raj 4238</li> <li>• Integrated weed management</li> <li>• Termite management</li> </ul>

Cumin	<ul style="list-style-type: none"> <li>• Integrated disease management</li> <li>• Varietal intervention (GC 4)</li> <li>• Innovation of line sowing in cumin crop</li> <li>• Intergrated nutrient management</li> </ul>
Dhaman Grass	<ul style="list-style-type: none"> <li>• High yielding varieties in waste lands</li> <li>• Development of <i>gochar</i> land</li> </ul>
Greengram	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Dissemination of high yielding variety in rainfed condition (GAM 5)</li> <li>• Intergrated disease management (Mungbean leaf curl virus)</li> <li>• Integrated insect-pest management (pod borer complex and sucking insects like aphid, whitefly, thrips etc.)</li> </ul>
Napier grass	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Introduction of napier grass in irrigated area</li> </ul>
Sesame	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Demonstrated drought tolerant variety (RT 351)</li> <li>• Integrated insect-pest and disease management (Pod borer, phyllody incidence, sucking insects like leaf hopper, whitefly, aphid, thrips)</li> <li>• Recommended seed rate with line sowing</li> <li>• Weed management</li> </ul>
Clusterbean	<ul style="list-style-type: none"> <li>• Varietal intervention</li> <li>• Demonstrated drought tolerant variety (RGC 1017)</li> <li>• Introduction of drought tolerant varieties</li> <li>• Integrated disease management</li> </ul>
Mothbean	<ul style="list-style-type: none"> <li>• Introduction of high yielding short duration variety RMO 225</li> <li>• Introduction of drought tolerant varieties (CZM 2)</li> <li>• Integrated nutrient management</li> </ul>

### 3. TECHNICAL ACHIEVEMENTS

#### 3. A. Details of target and achievements of mandatory activities by KVK during 2022

OFT (Technology Assessment)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Target s	Achievemen t	Target s	Achievemen t	Target s	Achievemen t	Target s	Achievemen t
6	6	18	18	125	150.2	355	425

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achieve ment	Targets	Achievem ent	Targets	Achieve ment	Targets	Achieve ment
Farmers	60	72	1400	1582	500	1135	10000	20206
Rural youth	10	14	200	293				

Extn. Functionaries	2	2	40	41				
Sponsored	10	18	300	446				
Vocational	3	5	75	110				

Seed Production (q)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
50.00	151.0	262	10000	71972	92

## I.A TECHNOLOGY REFINEMENT AND ASSESSMENT

### Summary of technologies assessed under various *crops* by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation	Wheat	Promoting saline tolerant variety of wheat under Pali condition	3	3
Integrated Crop Management	Mustard	Optimum plant population for mustard for getting higher yield.	3	3
	Lasoda	<i>Effect of different pruning methods on the yield of Lasoda (Gonda)</i>	3	3
Integrated Pest Management	Green gram	Pod borer management in greengram	3	3
Integrated Disease Management	Fennel	Integrated wilt management in fennel	3	3
Small Scale Income Generation Enterprises				
Resource Conservation Technology	Tomato	Production of tomato crop under drip irrigation with straw and black plastic mulch	3	3
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post-Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total				

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

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

**Summary of technologies assessed under various enterprises by KVKs**

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

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

**I.B. TECHNOLOGY ASSESSMENT IN DETAIL**

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

(The model for preparing the same is furnished below)

**VARIETAL EVALUATION**

**Problem definition:** Low yield of wheat under saline soil

**Technology Assessed:** High yielding variety for saline/sodic conditions (KRL 210)

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Low yield of wheat under saline soil. High yielding variety for saline/sodic conditions (KRL 210) had net return of Rs. 34625/ha with B:C ratio 1.8 as compared to farmer practice with net return of Rs. 13998/ha with B:C ratio of 1.3.

**Table Performance wheat under assessment**

Technology Option	No. of trials	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmer practice	3	26.5	13898	1.3
Var. Raj 3077		32.6	26189	1.6
Var. KRL 210		36.8	34625	1.8

**Problem definition:** Low productivity of mustard

**Technology Assessed:** Row spacing of 45 cm.

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Low productivity of Mustard due to high density of plant population. The effect of line spacing of 45 cm had net return of Rs. 43100/ha- with B:C ratio 2.8 as compared to farmer practice with net return of Rs. 39456/ha with B:C ratio of 1.6.

**Table Performance of Mustard under assessment**

Technology Option	No. of trials	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmer practice	3	13.8	39456	1.6
Recommended practice (30 cm)		16.0	41570	2.4
Row spacing at (45 cm)		17.3	43100	2.8

### INTEGRATED CROP MANAGEMENT

**Problem definition:** Production of tomato crop under drip irrigation with straw and black plastic mulch

**Technology Assessed:** Drip irrigation with straw and plastic mulching

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Production of tomato crop under drip irrigation with silver plastic mulch. The recommended practice had net return of Rs. 2,14,700/- with B: C ratio 3.2 as compared to farmer or local practice with net return of Rs. 1,30,000/- with B: C ratio of 2.2.

**Table: Performance of Tomato crop under assessment**

Technology Option	No. of trials	Yield (q/ha)	Net Returns (Rs./ha)	B:C ratio
T1. Local practices (without mulching and drip irrigation)	3	208	1,30,000	2.2
T2. Recommended (drip irrigation with black plastic mulch)		251	1,75,500	2.7
T3. Recommended practice (Drip irrigation with straw mulch)		304	2,14,700	3.2

**Problem definition:** Effect of different pruning methods on the yield of Lasoda (Gonda)

**Technology Assessed:** Foliar spray with Ethrel for defoliation

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Effect of different pruning methods on the yield of Lasoda (Gonda). The Foliar spray of ethereal defoliation method had high net return of Rs. 3,10,500 per ha with B: C ratio 4.80 as compared to control or naturally grown with net return of Rs. 94,000 per ha with B: C ratio of 2.30. It may be due early fruit harvested during month of last week of Feb. to April and get high price due to high market demand during Holi festival, Shitalasthmi and good quality of fruit.

**Table Performance of Lasoda crop under assessment**

<b>Technology Option</b>	<b>No. of trials</b>	<b>% Defoliation (20 days after treatment)</b>	<b>Yield (q/plant)</b>	<b>Net return (Rs./ha)</b>	<b>B:C ratio</b>
T1. Local practices (Natural defoliation)	3	0.00	90.34	94,000	2.30
T2. Recommended (hand pruning)		92.50	160.00	2,42,200	4.15
T3. Recommended practice (Two foliar spray of Ethrel @ 4ml/lit. water during first and second week of January)		65.00	131.66	3,10,500	4.80

### INTEGRATED PEST MANAGEMENT

**Title:** Pod borer management in greengram

**Problem definition:** Pod borer incidence in greengram

**Technology Assessed:** Foliar spray with newer molecule Emamectin benzoate 5% SG

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Minimize losses due to pod borer incidence in greengram. The effect of recommended treatment (T3) had net return of Rs. 42,142/ha with B:C ratio 3.2 followed by Rs. 28,360/ha and 2.6 as compared to farmer practice with net return of Rs. 26,964/ha- with B:C ratio of 2.5.

**Table Performance of brinjal under assessment**

<b>Technology Option</b>	<b>No. of trials</b>	<b>% Pod damage</b>	<b>Yield (q/ha)</b>	<b>Net Returns (Rs. /ha)</b>	<b>B:C ratio</b>
T1: Farmer practice	3	35	5.74	26964	2.5
T 2: Foliar spray with monocrotophos 36 SL or Quinalphos 25 EC @ 1 litre/ha at the time of flowering or pod formation, repeat the spray at 15 days interval		29	5.92	28360	2.6
T3: Foliar spray with Emamectin benzoate 5% SG @ 0.5 g/liter water started with insect appearance and repeat at 15 days interval		16	7.91	42142	3.2

### INTEGRATED DISEASE MANAGEMENT

**Title:** Integrated wilt management in fennel

**Problem definition:** Wilt disease incidence in fennel spice crop

**Technology Assessed:** Seed and soil inoculation with bio-agent Trichoderma

KVK, Pali in Rajasthan conducted on-farm trial to **assess** Integrated wilt management in fennel. The effect of recommended treatments had net return of Rs.



1,66,350/ha- with B:C ratio 4.99 as compared to farmer practice with net return of Rs. 1,05,350/ha- with B:C ratio of 3.62.

**Table Performance of fennel under assessment**

<b>Technology Option</b>	<b>No. of trials</b>	<b>% Wilt incidence</b>	<b>Yield (q/ha)</b>	<b>Net Returns (Rs. /ha)</b>	<b>B:C ratio</b>
<i>Farmers Practice: No seed treatment</i>	3	11.2	26	105350	3.62
<i>Seed treatment with Trichoderma @ 6 gm/kg seed</i>		14.1	17	142800	4.53
<i>Seed treatment with Carbendazim @2g/kg seed followed by seed inoculation with Trichoderma @ 10 gm/kg seed + Soil application of 60 kg FYM enriched with 2.5 kg Trichoderma</i>		16	9	166350	4.99

## II. FRONTLINE DEMONSTRATION

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

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

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmer	Area (ha)
1.	<b>Sesame</b>	Integrated crop management	<ul style="list-style-type: none"> <li>Improved variety (RT 351)</li> <li>Timely sowing</li> <li>sowing at 45 X10 cm spacing</li> <li>Seed treatment with Carbendism 2 gm</li> <li>Seed treatment with Trichoderma 10 gm/kg. seed</li> </ul>	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension literature</li> <li>Extension activities viz. Field day, Kisan Goshti, Field visit etc.</li> </ul>	15	160	295
2.	<b>Green gram</b>	Integrated crop management	<ul style="list-style-type: none"> <li>Improved variety (GM 6)</li> <li>For root rot treated seed with Trichoderma 10 gm/kg. seed</li> <li>Seed treatment with Carbendazim 2 gm /kg seed.</li> </ul>	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension literature</li> <li>Field day, Kisan Goshti</li> </ul>	14	145	215
3.	<b>Vegetables</b>	Varietal evaluation	Improved Varieties Line sowing Drip irrigation system Recommended dose of NPK and plant protection measures	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension activities</li> </ul>	18	99	125
4.	<b>Mustard</b>	Integrated crop management	<ul style="list-style-type: none"> <li>Improved variety (DRMRIJ 31)</li> <li>Adoption of reduce tillage practices (3-4 plough/harrow)</li> <li>Seed dressing with nitrogen fixing bacteria Azotobacter and phosphorus solubilizing bacteria (PSB)</li> <li>Basal application of 40 kg S/ha through gypsum or elemental.</li> </ul>	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension literature</li> <li>Extension activities viz. Field day, Kisan Gosthi, Field visit, farmers-scientist interaction etc.</li> </ul>	22	165	345

5.	<b>Chickpea</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved variety (RSG 974)</li> <li>Field preparation at right time, proper moisture, proper depth and planking.</li> <li>Seed treatment with Carbendism @ 4 gm /kg seed for prevention of wilt &amp; root rot.</li> </ul>	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension activities viz. Field Day, Field visit etc.</li> </ul>	22	143	170
6.	<b>Wheat</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved <b>Wheat</b> var. DBW 187/KRL 210</li> <li>Seed treatment with Chloropyriphos @ 4-5 ml /kg seed and Mancozeb 2.5gm/ kg seed for termite &amp; seed born disease.</li> </ul>	<ul style="list-style-type: none"> <li>Result demonstration</li> <li>Extension literature</li> <li>Extension activities viz. Field Day,</li> </ul>	14	170	112
7.	<b>Barley</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved <b>Barley</b> var. RD 2715</li> <li>Seed treatment with Chloropyriphos @ 4 ml /kg</li> <li>Line sowing at 22.5 cm for timely sowing &amp; at 25 cm for late so-wn barley.</li> </ul>	<ul style="list-style-type: none"> <li>Extension literature</li> <li>Extension activities viz. Kisan Goshthi, Field visit etc.</li> </ul>	12	140	99
8.	<b>Oat</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved <b>Oat</b> var. JHO 822</li> <li>Seed treatment with Chloropyriphos @ 4 ml /kg</li> <li>Line sowing at 22.5 cm for timely sowing &amp; at 25 cm for late so-wn barley.</li> </ul>	<ul style="list-style-type: none"> <li>Extension literature</li> <li>Extension activities viz. Kisan Goshthi, Field visit etc.</li> </ul>	7	40	20
9.	<b>Napier grass</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved <b>Napier grass</b> var. CO 5</li> <li>Transplanting in lines at 3x2 feet for</li> <li>Fertilizers: N 60kg: P 40kg at basal and 25 kg N apply after every cutting</li> <li>Cutting: 4-5 cm above ground</li> </ul>	<ul style="list-style-type: none"> <li>Extension literature</li> <li>Extension activities viz. Kisan Goshthi, Field visit etc.</li> </ul>	82	175	-
10.	<b>Cumin</b>	Varietal evaluation	<ul style="list-style-type: none"> <li>Improved <b>Cumin</b> var. GC-4</li> <li>Incorporation of 5 t/ha mustard residue during summer irrigate the field then plough by disc help to control wilt problem.</li> </ul>	<ul style="list-style-type: none"> <li>Extension literature</li> <li>Extension activities viz. Field day, Kisan Goshthi, Field visit etc.</li> </ul>	14	90	76

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Sesame	Varietal evaluation	Seed (RT 351), Bio-fertilizer	Kharif 2022	20	20	12	28	40	
2.	Green gram	Varietal evaluation	Seed (GM 6), Bio-fertilizer	Kharif 2022	20	30	26	34	60	
3.	Napier grass	Varietal evaluation	Saplings, Line sowing, Drip irrigation	Kharif 2022	5	5	5	15	20	
4.	Okra	Varietal evaluation	Seed (Arka Anamika), Line sowing, Drip irrigation	Kharif 2022	2	2	4	9	13	
5.	Mustard	Varietal evaluation	Seed (DRMRIJ 31), Line sowing, Drip irrigation	Rabi 2022-23	50	50	33	67	100	
6.	Wheat	Varietal evaluation	Seed, (Karan Vandana) Line sowing, Drip irrigation	Rabi 2022-23	10	10	7	18	25	
7.	Barley	Varietal evaluation	Seed (RD 2715), Line sowing, Drip irrigation	Rabi 2022-23	5	5	1	09	10	
8.	Chickpea	Varietal evaluation	Seed (RSG 974), Line sowing, Drip irrigation	Rabi 2022-23	20	20	11	29	40	
9.	Papaya	Varietal evaluation	Plants (Red lady 786), Improved variety, drip irrigation	Kharif/Rabi 2022-23	5	5	5	9	10	
10.	Tomato	Varietal evaluation	Seed (Arka Rakshak F1), Line sowing, Drip irrigation, resource conservation	Rabi/ Summer 2022	2	2.5	3	4	7	
11.	Onion	Varietal evaluation	Saplings (Bhima red), Line sowing, Drip irrigation	Rabi 2022-23	2	1.5	4	4	8	
			<b>TOTAL</b>		<b>141</b>	<b>151</b>	<b>111</b>	<b>226</b>	<b>333</b>	

## Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sesame	Kharif 2022	Rainfed	Sandy loam	L	M	H	Greengram	1 <sup>st</sup> week of July, 2022	Last week of Sept., 2021	266	13
Green gram	Kharif 2022	Rainfed	Sandy loam	L	M	H	Bajra	1 <sup>st</sup> week of July 2022	Last week of Sept., 2021	266	13
Okra	Kharif, 2022	Irrigated	Sandy loam	L	M	H	Fellow	1 <sup>st</sup> week of July 2022		266	13
Napier grass	Kharif 2022	Irrigated	Sandy loam	L	M	H	Barley	1 <sup>st</sup> week of July, 2022	Perennial crop	266	13
Mustard	Rabi 2022-23	Irrigated	Sandy loam	L	M	H	Greengram	3 <sup>rd</sup> week of October,	2 <sup>nd</sup> week of Feb.	0	0
Wheat	Rabi 2022-23	Irrigated	Sandy loam	L	M	H	Greengram	2 <sup>nd</sup> week of November	3 <sup>rd</sup> week of March	0	0
Barley	Rabi 2022-23	Irrigated	Sandy loam	L	M	H	Greengram	2 <sup>nd</sup> week of November	3 <sup>rd</sup> week of March	0	0
Chickpea	Rabi 2022-23	Rainfed	Sandy loam	L	M	H	Sesame	1 <sup>st</sup> week of October	2 <sup>nd</sup> week of Feb.	0	0
Papaya	Rabi 2022-23	Irrigated	Sandy loam	L	M	H	Bajra	2 <sup>nd</sup> week of November	3 <sup>rd</sup> week of March	0	0
Tomato	Rabi 2022-23	Irrigated	Sandy loam	L	M	H	Sesame			0	0
Onion	Rabi, 2022-23	Irrigated	Sandy loam	L	M	H	Greengram			0	0

## Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Non-availability of seeds of latest high yielding variety of all major crops viz. cumin, wheat, sesame, chickpea, greengram, , etc and bio-fertilizer in time

## Farmers' reactions on specific technologies

S. No	Feed Back
1	Early vigorous growth and branching of mustard var. DRMRIJ 31 appreciated by the farmers along with broad size grain & higher oil content, higher number of pod per plant due to basal dose of fertilizer & sulphur. Variety of mustard gave better performance under limited water as compared to local in terms of branching, no. of siliqua, size of siliqua, & grain etc.
2	Arka Rakshak variety of tomato resistant bacterial wilt, Leaf curl virus and early blight and higher production and good quality fruits
3	Wheat variety (Karan Vandana) is a high yielding variety with more tillering and good quality of seeds in arid region
4	RD 2715 Higher yield in rainfed condition, disease resistant variety
5	Greengram var. GM 6 – short duration, early maturity, suitable for rainfed conditions, less shattering
6	Napier grass (CO 4) – High yielding in saline soil and water, high crude protein, easily digestible, round the year fodder availability.
7	Oat (JHO 822) – Multi cut, high yielding fodder variety, high crude protein, easily digestible.
8	Papaya variety Red lady 786 is a high yielding variety with more sweetness under arid condition
9	Seed and soil inoculation of Trichoderma gave satisfactory results against soilborne diseases in greengram and chickpea.

## Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	13		475	
2	Farmers Training	8		194	
3	Media coverage	7		-	
4	Training for extension functionaries	1		-	

## Performance of Frontline demonstrations

## Frontline demonstrations on oilseed crops (including NSFM)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Sesame																		
Sesame	Varietal intervention	Seed, Bio-fertilizer, line sowing	RT 351	40	20	7.2	5.0	5.89	4.65	26.6	18002	46033	28031	2.55	16500	36410	19910	2.20
Mustard	ICM	Seed, Line sowing, PP measures	(DRMRIJ 31)	100	50	22.7	14.2	19.2	15.54	24.25	28700	96960	68260	3.05	18225	71000	52775	2.78

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

\*\* BCR= GROSS RETURN/GROSS COST

## Frontline demonstration on pulse crops (including NSFM)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Greengram																		
Green gram	Varietal intervention	Seed, Bio-fertilizer, line sowing	GM 6	60	30	8.6	4.5	7.15	5.52	29.5	20000	55448	35448	2.8	17550	42808	25258	2.4
Chickpea																		
Chickpea	Varietal intervention	Line sowing, Bio-fertilizer, PP measures	RSG 974	40	20	21.0	14.0	16.8	13.5	24.4	29500	87864	58364	2.97	26850	70605	43755	2.62

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

\*\* BCR= GROSS RETURN/GROSS COST

\*\*\* Crop not yield due to low moisture condition (no rain after August) in the field

\*\*\*\* Crop is stand in the field

## FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					High	Low	Average	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
<b>Cereals</b>																			
<b>Wheat</b>																			
Wheat (Karan Vandana)	ICM	Seed, Bio-fertilizer, line sowing	25	10	65.5	47.5	60.7	48.5	24.01	-	-	39500	122311	82811	3.10	35350	97728	62378	2.76
<b>Barley</b>																			
Barley (RD 2715)	ICM	Seed, Bio-fertilizer	12	5	46.7	28.5	35.6	29.9	20.7	-	-	26800	58206	31406	2.2	24150	48233	24083	2.0
<b>Spices &amp; condiments</b>																			
<b>Fodder Crops</b>																			

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

\*\* BCR= GROSS RETURN/GROSS COST

\*\*\* Crops is stand in the field

## FLDs on horticultural crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					High	Low	Average	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
<b>Vegetables</b>																			
<b>Okra</b>	Varietal evaluation	Arka Anamika	7	2.5	290	250	270	240	12.50	-	-	88500	270000	181500	3.04	80300	192000	111700	2.39
<b>Tomato</b>	Varietal evaluation	Arka Rakshak F-1	5	1.2	170	135	152.5	128	19.00	-	-	93700	228750	135050	2.44	82500	128000	45500	1.55
<b>Onion</b>	Varietal evaluation	Bhima Red	8	1.5	270	240	255	205	24.40	-	-	87480	255000	167520	2.91	82750	200500	117750	2.42
<b>Spices &amp; condiments</b>																			
<b>Fruit crops</b>																			
<b>Papaya</b>	Varietal evaluation	Red Lady 786	10	5	721	608	664.5	525	26.58	-	-	170300	664500	494200	3.90	157000	421000	264000	2.68



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

\*\* BCR= GROSS RETURN/GROSS COST

\*\*\* Crops is stand in the field

### FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
	Balance feeding of animals	Multi Nutrient Feed Block	15	25	-	-	20% milk increase	-	-	-	-	-	-	-	-	-	-

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

\*\* BCR= GROSS RETURN/GROSS COST

### FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	

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

\*\* BCR= GROSS RETURN/GROSS COST

### FLD on Other enterprises

Category	Name of the technology	No. of Farmer	No. of	Major parameters	% change in major parameter	Other parameter	Economics of demonstration (Rs.) or Rs./unit	Economics of check (Rs.) or Rs./unit
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	demonstrated		units	Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
<b>Vermi Compost</b>																
Increasing soil fertility	<i>Assenia foeatida</i>	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Azolla</b>																
Azolla	<i>Improved</i>	30	30	-	-	Increasing 10-15% milk in cow and buffalo	-	-	-	-	-	-	-	-	-	-
<b>Kitchen garden</b>																
Balanced diet	High yielding varieties	10	10	-	-	Self- sufficient for home consumption with saving of Rs. 8000/- per year	-	-	-	-	-	-	-	-	-	-
<b>Farm implements</b>																
Time saving	Serrated sickle, rotovator, farm cutter, mechanized spray machine	15	15	-	-	Saving of time	-	-	-	-	-	-	-	-	-	-

**FLD on Women Empowerment**

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check



[illegible]

[illegible]

Integrated fish farming	0			0			0	0	0	0
Carp breeding and hatchery management	0			0			0	0	0	0
Carp fry and fingerling rearing	0			0			0	0	0	0
Composite fish culture	0			0			0	0	0	0
Hatchery management and culture of freshwater prawn	0			0			0	0	0	0
Breeding and culture of ornamental fishes	0			0			0	0	0	0
Portable plastic carp hatchery	0			0			0	0	0	0
Pen culture of fish and prawn	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Edible oyster farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Fish processing and value addition	0			0			0	0	0	0
Others (pl specify)	0			0			0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IX Production of Inputs at site</b>										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	1	15	0	15	6	0	6	21	0	21
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	2	26	14	40	6	0	6	32	14	46
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>41</b>	<b>14</b>	<b>55</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>53</b>	<b>14</b>	<b>67</b>
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	0			0			0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0			0			0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0			0			0	0	0	0
Others (pl specify)	0			0			0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XI Agro-forestry</b>										
Production technologies	0			0			0	0	0	0
Nursery management	0			0			0	0	0	0
Integrated Farming Systems	0			0			0	0	0	0

[illegible]

Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>28</b>	<b>5</b>	<b>33</b>	<b>7</b>	<b>1</b>	<b>8</b>	<b>35</b>	<b>6</b>	<b>41</b>
<b>Grand Total</b>	<b>31</b>	<b>39</b>	<b>125</b>	<b>51</b>	<b>11</b>	<b>38</b>	<b>15</b>	<b>50</b>	<b>67</b>	<b>0</b>

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	1	16	0	16	10	0	10	26	0	26
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/irrigation	1	15	0	15	4	0	4	19	0	19
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	3	65	0	65	23	0	23	88	0	88
Soil & water conservation	1	14	0	14	7	0	7	21	0	21
Integrated nutrient management	1	13	0	13	8	0	8	21	0	21
Production of organic inputs	3	51	0	51	12	0	12	63	0	63
Fodder production	3	56	0	56	11	0	11	67	0	67
<b>Total</b>	<b>13</b>	<b>230</b>	<b>0</b>	<b>230</b>	<b>75</b>	<b>0</b>	<b>75</b>	<b>305</b>	<b>0</b>	<b>305</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crops	1	13	5	18	4	0	4	17	5	22
Off-season vegetables	1	14	7	21	0	0	0	14	7	21
Nursery raising	1	17	0	17	4	0	4	21	0	21



Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	1	15	0	15	5	0	5	20	0	20
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (a)</b>	<b>4</b>	<b>59</b>	<b>12</b>	<b>71</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>72</b>	<b>12</b>	<b>84</b>
<b>b) Fruits</b>										
Training and Pruning	1	15	0	15	6	0	6	21	0	21
Layout and Management of Orchards	1	19	0	19	5	0	5	24	0	24
Cultivation of Fruit	1	18	0	18	3	0	3	21	0	21
Management of young plants/orchards	1	20	0	20	0	0	0	20	0	20
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	1	17	0	17	5	0	5	22	0	22
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (b)</b>	<b>5</b>	<b>89</b>	<b>0</b>	<b>89</b>	<b>19</b>	<b>0</b>	<b>19</b>	<b>108</b>	<b>0</b>	<b>108</b>
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (c)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>d) Plantation crops</b>										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total (d)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>e) Tuber crops</b>										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total (e)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>f) Spices</b>										
Production and Management technology	1	14	0	14	6	0	6	20	0	20
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (f)</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0

Others (pl specify)				0			0	0	0	0
<b>Total (g)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GT (a-g)</b>	<b>10</b>	<b>16</b>	<b>12</b>	<b>17</b>	<b>38</b>	<b>0</b>	<b>38</b>	<b>20</b>	<b>12</b>	<b>21</b>
		<b>2</b>		<b>4</b>				<b>0</b>		<b>2</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	13	0	13	6	0	6	19	0	19
Production and use of organic inputs	1	17	0	17	4	0	4	21	0	21
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Soil and water conservation	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>IV Livestock Production and Management</b>										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Disease Management	2	26	15	41	5	3	8	31	18	49
Feed & fodder technology	1	16	6	22	0	0	0	16	6	22
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl specify)				0	0	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>42</b>	<b>21</b>	<b>63</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>47</b>	<b>24</b>	<b>71</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	2	0	28	28	0	16	16	0	44	44
Design and development of low/minimum cost diet	1	0	18	18	0	3	3	0	21	21
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	1	4	12	16	0	5	5	4	17	21
Processing and cooking	1	0	17	17	0	4	4	0	21	21
Gender mainstreaming through SHGs		0		0	0		0	0	0	0
Storage loss minimization techniques	1	2	14	16	0	5	5	2	19	21
Value addition	1	0	13	13	0	8	8	0	21	21
Women empowerment	1	0	16	16	0	6	6	0	22	22
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>8</b>	<b>6</b>	<b>118</b>	<b>124</b>	<b>0</b>	<b>47</b>	<b>47</b>	<b>6</b>	<b>165</b>	<b>171</b>

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Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>8</b>	<b>10</b>	<b>33</b>	<b>13</b>	<b>20</b>	<b>10</b>	<b>30</b>	<b>12</b>	<b>43</b>	<b>16</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Production technology of crops	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total</b>	<b>57</b>	<b>77</b>	<b>204</b>	<b>97</b>	<b>20</b>	<b>65</b>	<b>26</b>	<b>97</b>	<b>269</b>	<b>12</b>
		<b>4</b>		<b>8</b>	<b>3</b>		<b>8</b>	<b>7</b>		<b>46</b>

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	1	16	0	16	10	0	10	26	0	26
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/irrigation	1	15	0	15	4	0	4	19	0	19
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	4	82	0	82	26	0	26	108	0	108
Soil & water conservation	1	14	0	14	7	0	7	21	0	21
Integrated nutrient management	1	13	0	13	8	0	8	21	0	21
Production of organic inputs	4	66	0	66	18	0	18	84	0	84
Others (pl specify)	5	83	8	91	20	0	20	103	8	111
<b>Total</b>	<b>17</b>	<b>289</b>	<b>8</b>	<b>297</b>	<b>93</b>	<b>0</b>	<b>93</b>	<b>382</b>	<b>8</b>	<b>390</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high volume crops	2	31	5	36	9	0	9	40	5	45
Off-season vegetables	1	14	7	21	0	0	0	14	7	21
Nursery raising	2	31	5	36	8	0	8	39	5	44
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	1	15	0	15	5	0	5	20	0	20
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (a)</b>	<b>6</b>	<b>91</b>	<b>17</b>	<b>108</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>113</b>	<b>17</b>	<b>130</b>
<b>b) Fruits</b>										
Training and Pruning	1	15	0	15	6	0	6	21	0	21
Layout and Management of Orchards	2	33	0	33	11	0	11	44	0	44
Cultivation of Fruit	1	18	0	18	3	0	3	21	0	21
Management of young plants/orchards	1	20	0	20	0	0	0	20	0	20
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	2	31	3	34	9	0	9	40	3	43
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (b)</b>	<b>7</b>	<b>117</b>	<b>3</b>	<b>120</b>	<b>29</b>	<b>0</b>	<b>29</b>	<b>146</b>	<b>3</b>	<b>149</b>

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Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Disease Management	3	42	15	57	10	3	13	52	18	70
Feed & fodder technology	1	16	6	22	0	0	0	16	6	22
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4</b>	<b>58</b>	<b>21</b>	<b>79</b>	<b>10</b>	<b>3</b>	<b>13</b>	<b>68</b>	<b>24</b>	<b>92</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	3	0	42	42	0	25	25	0	67	67
Design and development of low/minimum cost diet	1	0	18	18	0	3	3	0	21	21
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	1	4	12	16	0	5	5	4	17	21
Processing and cooking	2	0	32	32	0	10	10	0	42	42
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	2	11	23	34	3	9	12	14	32	46
Value addition	2	0	29	29	0	14	14	0	43	43
Women empowerment	1	0	16	16	0	6	6	0	22	22
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>15</b>	<b>172</b>	<b>187</b>	<b>3</b>	<b>72</b>	<b>75</b>	<b>18</b>	<b>244</b>	<b>262</b>
<b>VI Agril. Engineering</b>										
Farm Machinery and its maintenance	2	39	0	39	11	0	11	50	0	50
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2</b>	<b>39</b>	<b>0</b>	<b>39</b>	<b>11</b>	<b>0</b>	<b>11</b>	<b>50</b>	<b>0</b>	<b>50</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	5	74	14	88	21	0	21	95	14	109
Integrated Disease Management	5	79	7	86	19	0	19	98	7	105
Bio-control of pests and diseases	2	32	0	32	8	0	8	40	0	40
Production of bio control agents and bio pesticides	1	15	0	15	4	0	4	19	0	19



Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>13</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>52</b>	<b>0</b>	<b>52</b>	<b>25</b>	<b>21</b>	<b>27</b>
<b>VIII Fisheries</b>										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IX Production of Inputs at site</b>										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	1	15	0	15	6	0	6	21	0	21
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	3	38	18	56	6	5	11	44	23	67
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4</b>	<b>53</b>	<b>18</b>	<b>71</b>	<b>12</b>	<b>5</b>	<b>17</b>	<b>65</b>	<b>23</b>	<b>88</b>
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	14	0	14	9	0	9	23	0	23
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>23</b>	<b>0</b>	<b>23</b>

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Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>14</b>	<b>17</b>	<b>53</b>	<b>22</b>	<b>8</b>	<b>43</b>	<b>22</b>	<b>65</b>	<b>21</b>	<b>29</b>
		<b>5</b>		<b>8</b>		<b>43</b>		<b>65</b>	<b>8</b>	<b>3</b>

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	16	2	18	4	0	4	20	2	22
Integrated Nutrient management	1	12	3	15	3	1	4	15	4	19
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>28</b>	<b>5</b>	<b>33</b>	<b>7</b>	<b>1</b>	<b>8</b>	<b>35</b>	<b>6</b>	<b>41</b>



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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	16	2	18	4	0	4	20	2	22
Integrated Nutrient management	1	12	3	15	3	1	4	15	4	19
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>28</b>	<b>5</b>	<b>33</b>	<b>7</b>	<b>1</b>	<b>8</b>	<b>35</b>	<b>6</b>	<b>41</b>

**Table. Sponsored training programmes**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Increasing production and productivity of crops	2	43	0	43	13	8	21	56	8	64
Commercial production of vegetables	1	9	5	14	7	4	11	16	9	25
<b>Production and value addition</b>										
Fruit Plants	1	23		23	4	0	4	27	0	27
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops	1	17	9	26	0	0	0	17	9	26
Soil health and fertility management	1	16	0	16	8	0	8	24	0	24



Production of Inputs at site	3	44	14	58	8	3	11	52	17	69
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	9	152	28	180	40	15	55	192	43	235
<b>Post harvest technology and value addition</b>										
Processing and value addition	1	13	8	21	4	0	4	17	8	25
Others (pl. specify)				0			0	0	0	0
<b>Total</b>	1	13	8	21	4	0	4	17	8	25
<b>Farm machinery</b>										
Farm machinery, tools and implements	2	30	0	30	12	0	12	42	0	42
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	2	30	0	30	12	0	12	42	0	42
<b>Livestock and fisheries</b>										
Livestock production and management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Animal Disease Management	1	16	0	16	8	0	8	24	0	24
Fisheries Nutrition				0			0	0	0	0
Fisheries Management				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
<b>Total</b>	1	16	0	16	8	0	8	24	0	24
<b>Home Science</b>										
Household nutritional security	0	0	0	0	0	0	0	0	0	0
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	2	0	46	46	0	14	14	0	60	60
Balance diet of farm woman	1	0	17	17	0	5	5	0	22	22
<b>Total</b>	3	0	63	63	0	19	19	0	82	82
<b>Agricultural Extension</b>										
Capacity Building and Group Dynamics	2	25	4	29	7	2	9	32	6	38
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	2	25	4	29	7	2	9	32	6	38

Name of sponsoring agencies involved  
ATMA, ICDC

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Commercial floriculture				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Commercial vegetable production				0			0	0	0	0

Integrated crop management				0			0	0	0	0
Organic farming	1	17	0	17	5	0	5	22	0	22
Others (pl. specify)				0			0	0	0	0
<b>Total</b>	<b>1</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>22</b>	<b>0</b>	<b>22</b>
<b>Post harvest technology and value addition</b>										
Value addition	1	0	15	15	0	6	6	0	21	21
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>21</b>	<b>21</b>
<b>Livestock and fisheries</b>										
Dairy farming				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Piggery				0			0	0	0	0
Poultry farming				0			0	0	0	0
Others (pl. specify)				0			0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Income generation activities</b>										
Vermicomposting	0	0	0	0	0	0	0	0	0	0
Production of bio-agents, bio-pesticides,	0	0	0	0	0	0	0	0	0	0
bio-fertilizers etc.	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery	1	16	0	16	5	0	5	21	0	21
and implements	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Mushroom cultivation	1	14	5	19	6	0	6	20	5	25
Nursery, grafting etc.	1	14	0	14	7	0	7	21	0	21
Tailoring, stitching, embroidery, dying etc.	0	0	0	0	0	0	0	0	0	0
Agril. para-workers, para-vet training	0	0	0	0	0	0	0	0	0	0
Micro irrigation				0			0	0	0	0
<b>Total</b>	<b>3</b>	<b>44</b>	<b>5</b>	<b>49</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>62</b>	<b>5</b>	<b>67</b>
<b>Agricultural Extension</b>										
Capacity building and group dynamics				0			0	0	0	0
Motor rewinding				0			0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total</b>	<b>5</b>	<b>61</b>	<b>20</b>	<b>81</b>	<b>23</b>	<b>6</b>	<b>29</b>	<b>84</b>	<b>26</b>	<b>110</b>

## IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	262	10000	60	10060
Diagnostic visits	72	344	16	360
Field Day	13	426	15	441
Group discussions	27	395	15	410
Kisan Ghosthi	16	305	18	323
Film Show	15	290	11	301
Self -help groups	2	40	6	46
Kisan Mela	3	1100	28	1128
Exhibition	4	350	9	359
Scientists' visit to farmers field	68	224	20	244
Farmers visit to KVK	489	1650	22	1672
Plant/animal health camps	4	130	8	138
Ex-trainees Sammelan	1	30	3	33
Farmers' seminar/workshop	0	0	0	0
Method Demonstrations	58	410	18	428
Celebration of important days	15	560	15	575
Awareness programmes conducted	4	330	10	340
Exposure visits	1	88	0	88
Lectures, soil health camp	78	2045	42	2087
<b>Total</b>	<b>1135</b>	<b>18717</b>	<b>316</b>	<b>19033</b>

## Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	1
Extension Literature	7
News paper coverage	18
Popular articles	9
Radio Talks	3
TV Talks	9
Animal health camps (Number of animals treated)	130
Others (pl. specify)	0
<b>Total</b>	<b>173</b>

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
KVK, Pali	Text only	52	20	118	15	27	30	262
	Voice only	0	0	0	0	0	0	0
	Voice & Text both	0	0	0	0	0	0	0
	<b>Total Messages</b>	52	20	118	15	27	30	262

	<b>Total farmers Benefitted</b>	<b>685</b>	<b>94</b>	<b>6700</b>	<b>450</b>	<b>250</b>	<b>336</b>	<b>11264</b>
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## V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

<b>Number of KVKs organized Technology Week</b>	<b>Types of Activities</b>	<b>No. of Activities</b>	<b>Number of Participants</b>	<b>Related crop/livestock technology</b>
02	Gosthies	6	86	Organic farming, Fodder production, drip irrigation, ICM
	Lectures organized	9	126	ICT, IPM, INM, weed management
	Exhibition	0	0	
	Film show	3	66	Vermi-composting and azolla
	Fair	0	0	
	Farm Visit	11	190	Poultry unit, rainwater harvesting, fodder unit, crop cafeteria, model nursery and mushroom unit
	Diagnostic Practical	4	72	Cumin wilt, cuscuta management in henna, pod borer management in chickpea, fruit borer in vegetables
	Distribution of Literature (No.)	15	260	Napier grass, henna cultivation, KVK role, azola, vermicomposting
	Distribution of Seed (q)	0	0	
	Distribution of Planting materials (No.)	2	275	
	Bio Product distribution (Kg)	0	0	
	Bio Fertilizers (q)	0	0	
	Distribution of fingerlings	0	0	
	Distribution of Livestock specimen (No.)	0	0	
	<b>Total number of farmers visited the technology week</b>	<b>50</b>	<b>1075</b>	

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

### Production of seeds by the KVKs

<b>Crop</b>	<b>Name of the crop</b>	<b>Name of the variety</b>	<b>Name of the hybrid</b>	<b>Production (A)</b>		
				<b>2021</b>		
				<b>Quantity of seed produced (q) approx.</b>	<b>Value (Rs)</b>	<b>Number of farmers</b>
<b>Cereals</b>						
	Wheat	KRL 210	-	47.8	318800	36
	Barley	RD 2715	-	2.4	7200	10
<b>Oilseeds</b>						
	Mustard	DRMRIJ 31	-	22.49	170590	81
	Sesame	RT 351	-	4.8	57600	35

<b>Pulses</b>						
	Chickpea	RSG 974		68.34	546720	75
	Greengram	IPM 2-03	-	5.2	33800	25
<b>Fodder crop seeds</b>						
<b>Total</b>				<b>151.03</b>	<b>11,34,710</b>	<b>262</b>

**Production of planting materials by the KVKs**

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings			-	1217	3651	
Fruits			-	1612	50670	
Ornamental plants			-	333	9980	
Medicinal and Aromatic						
Fodder crop saplings						
	Napier grass	CO 5	-	68558	342970	81
Forest Species						
	Neem		-	252	19960	10
<b>Total</b>			-	<b>71972</b>	<b>437231</b>	

**Production of Bio-Products**

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
Bio Fertilizers				
	Waste Decomposer (Lt.)	2373	47,460	145
Others				
	Earthworm (Unit)	148	37300	52
	Vermicompost (Kg.)	26323	263230	152
<b>Total</b>		<b>28844</b>	<b>347,990</b>	<b>1504</b>

**Table: Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>	0	0	0	0
Cows	0	0	0	0
Buffaloes	0	0	0	0
Calves	0	0	0	0
<b>Poultry</b>	0	0	0	0
Broilers	0	0	0	0
Layers	0	0	0	0
Duals (broiler and layer)	Kadaknath	258	75200	

Japanese Quail	0	0	0	0
Turkey	0	0	0	0
Emu	0	0	0	0
Ducks	0	0	0	0
Eggs	Kadakhnath	1141	13300	129
<b>Piggery</b>	0	0	0	0
Piglet	0	0	0	0
<b>Fisheries</b>	0	0	0	0
Indian carp	0	0	0	0
Exotic carp	0	0	0	0
Rabbit	-	5	1000	5
Bater		0	0	0
<b>Total</b>		<b>1404</b>	<b>89500</b>	

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of soil health cards distributed
Soil	105	74	5	0	105
Water	82	62	4	0	0
Plant	0	0	0	0	0
Manure	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0
<b>Total</b>	<b>187</b>	<b>136</b>	<b>9</b>	<b>0</b>	<b>105</b>

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Pali	29-12-2022	<p>बैठक में निम्नलिखित पदाधिकारी एवं सदस्यगण उपस्थित थे :-</p> <ol style="list-style-type: none"> <li>डॉ. एन वी पाटील, कार्यकारी निदेशक, काजरी, जोधपुर</li> <li>डॉ. एस.के. सिंह, निदेशक, अटारी, जोधपुर</li> <li>डॉ. आर. एस. मेहता, प्रधान वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. धीरज सिंह, अध्यक्ष, केविके, पाली</li> <li>डॉ. बी.एस. राठौड़, अध्यक्ष, केविके, जोधपुर</li> <li>डॉ. मनीष कामत, अध्यक्ष, केविके, भुज</li> <li>डॉ. सीता राम मीणा, वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. एम.बी. नूर, वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. कमला चौधरी, वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. कीरथीका अरुमुगम, वैज्ञानिक, आर.आर.एस. काजरी, पाली</li> <li>डॉ. डी एस भाटी, सेवानिवृत्त सह आचार्य</li> <li>डॉ. मनोज पंवार, वरिष्ठ चिकित्सा अधिकारी, पशुपालन विभाग, पाली</li> <li>श्री राहुल चौधरी, क्षेत्रीय प्रबंधक, ईफको, पाली</li> <li>श्री कैलाश चंद्र, उप परियोजना निदेशक आत्मा, पाली</li> </ol>

		15. श्री जोगेन्द्र सिंह, कृषि अधिकारी, उद्यान विभाग, पाली 16. श्री प्रदीप पगारिया, निदेशक प्रसार, जोधपुर 17. श्री राजेन्द्र जाखर, नेहरू युवा केंद्र, पाली 18. डॉ. एम. के. चौधरी, विषय विशेषज्ञ, सस्य, केविके, पाली 19. डॉ. ऐष्वर्य डूडी, विषय विशेषज्ञ, गृह विज्ञान, केविके, पाली 20. डॉ. चन्दन कुमार, विषय विशेषज्ञ, उद्यान, केविके, पाली 21. डॉ. ए.एस. तेतरवाल, विषय विशेषज्ञ, पौध संरक्षण, केविके, पाली 22. डॉ. बी आर कुरी, एस एम एस, के.वी.के., पाली 23. श्री पी.के. तोमर, तकनीकी अधिकारी, कम्प्यूटर, केविके, पाली 24. श्री मनोज अहिरवार, एस आर एफ, केविके, पाली 25. श्री विष्णु दत्त शर्मा, एग्रोमेट असिस्टेंट, केविके, पाली 26. श्री रमेश कुमार, प्रोजेक्ट असिस्टेंट, केविके, पाली 27. सुश्री सुशीला सोलंकी, कृषक, चिमनपुरा, पाली 28. श्री देदा राम, कृषक, गांव- गाजनगढ़, पाली 29. श्री गणेश राम, कृषक, खारडा, पाली 30. श्री भंवर सिंह, कृषक, गिरादरा, पाली 31. श्री कासम खान, कृषक, सिंधियों की ढाणी, पाली 32. श्री पेमा राम, कृषक, अरटिया, पाली
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## IX. NEWSLETTER/MAGAZINE

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

## X. PUBLICATIONS

Category	Number
Research Paper	08
Technical bulletins	02
Technical reports	07
Popular Articles	09
Ext. Literature	10
Book	02
Abstract	11
Leaflet/ folders	9
Press release	18

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

Activities conducted				
No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
8	7	1950	1388	64

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	0	0
Pulses	0	0
Cereals	0	0
Vegetable crops	0	0
Tuber crops	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No. of participants
<b>Total</b>		

Animal health camps organized

Number of camps	No. of animals	No. of farmers
<b>Total</b>		

Seed distribution in drought hit states

Crops	Quantity (q)	Coverage of area (ha)	Number of farmers
<b>Total</b>			

Large scale adoption of resource conservation technologies

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



## Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
<b>Total</b>												

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
<b>Total</b>				

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

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Annual Progress Review of TSP	1	30	24
Contingency plan and status of crops and lumpy skin disease of cattle	1		
Annual Review meeting for TSC (TSP/SCSP)	1		
Annual Progress Review of NFSM,	1	85	47
Annual action plan-2023 meeting	1	40	24
Annual action plan meeting for Natural Farming	1		
<b>Total</b>	<b>6</b>		

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

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

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

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

<b>Name of KVK</b>	Pali
<b>Crop and Variety</b>	Mustard (DRMRIJ 31)
<b>Name of farmer &amp; Address</b>	Sh. Pema Ram Village & P.O. – Hemawas, Pali
<b>Background information about farmer field</b>	Shri Pema Ram hails from Hemawas and owns 07 hectare of land. Due to his keen interest and regular trainings today, he is reputed progressive farmer taking agronomic crops along with fruits and vegetables. He has 4 milch animals. The manure received from dung is used for Rabi crops. He also grows green manure dhancha during kharif season which is mixed in soil at tender stage. Thus, he harvests a bumper rabi crop namely mustard, wheat and fenugreek. Thus, scientific management of field and proper crop selection fetches him a return of Rs. 4.60 lakhs per annum.
<b>Details of technology demonstrated</b>	Improved seed, biofertilizer
<b>Institutional Involvement</b>	Seed, plant protection measures, biofertilizer, monitoring
<b>Success Point</b>	Increased yield leading to increased income.
<b>Farmer Feedback</b>	<ul style="list-style-type: none"> <li>• Early vigorous growth and branching of mustard var. DRMRIJ 31 appreciated by the farmers along with broad size grain &amp; higher oil content, higher number of pod per plant due to basal dose of fertilizer &amp; sulphur.</li> <li>• Variety of mustard gave better performance under limited water as compared to local in terms of branching, no. of siliqua, size of siliqua, &amp; grain etc.</li> <li>• No incidence of Blight or powdery mildew</li> </ul>
<b>Outcome Yield (q/ha)</b>	
- Demonstration	21.00 q/ha
- Potential yield of variety/technology	24.00 q/ha
- District average (Previous year)	11.90 q/ha
- State average (Previous year)	13.35 q/ha

**Performance of technology vis-à-vis Local check (Increase in productivity and returns)**

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	15.5	26800	80500	53700	3.00
Demonstration	21	28050	95989	68417	3.42
% Increase	35.48	4.66	19.24	27.41	-

**Good Quality Photographs:****XIII. STATUS REVOLVING FUNDS**

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
January 2019 to Dec. 2019	1056780	567600	437430	619350
January 2020 to Dec. 2020	730490	874355	1180000	424845
January 2021 to Dec. 2021	424845	1355330	1119012	661163
January 2022 to Dec. 2022	661163	2430300	2334219	757244

The KVKs implementing VATICA, NARI & Doubling Farmers income should submit one page report with salient achievements along with photographs pertaining to year 2021.

**NARI project:****Table: Comparative production and consumption (20 Nos.)**

Crop	Av. Production (Kg)	Av. Consumption (Kg)	Av. Sale (Kg)	Av. Income (Rs.)
<b>Rabi</b>				
Chandaliya	20.50	12.50	8.00	240
Brinjal	23.50	10.50	13.00	520
Tomato	22.00	10.50	09.50	360
Spinach	33.50	20.50	11.50	330
Coriander	25.00	4.00	21.00	630
Fenugreek	30.50	14.50	16.00	480
Chili	10.50	3.50	7.00	280
Bottle gourd	40.50	15.50	25.00	750

Sogari	20.00	5.00	15.00	600
<b>Kharif</b>				
Brinjal	30.50	8.50	22.00	660
Tomato	25.50	5.00	15.50	450
Spinach	24.50	10.00	14.50	420
Coriander	5.50	01.50	04.00	560
Chilli	5.50	01.50	04.00	160
Bottle gourd	35.50	15.50	20.00	600
Ridge gourd	30.50	10.50	20.00	600
Tinda	25.50	08.50	17.25	510
Kachri	35.50	05.00	30.50	600
Clusterbean	25.50	9.50	16.00	480

Name of vegetables	Variety	Area sq (feet)	Production	Benefit /unit
Spinach	Allgreen	50	14 kg	1650
Okra	Arka Anamika	40	8 kg	950
Pea	GS 10	20	10 kg	1050
Coriander	CRC125	30	12 kg	850
Chandalai	Pusa Kiran	20	13 kg	760
Rai	Pusa Sag 1	30	15 kg	1110
Kasuri Methi	AKS 2	30	22 kg	1310
Radish	Pusa Himani	20	10 kg	1175

**ON campus training under NARI project:**

S. no.	Title	No. of FW
1	Land preparation and layout of kitchen gardening	23
2	Nursery management for kitchen gardening	25
3	Post-harvest management and value addition	19

**Off campus training under NARI**

S. No.	Title	No. of Beneficiaries
1	Land preparation and layout for kitchen gardening	52
2	Improved varieties of fruit and vegetables for nutria garden	46
3	Seed rate and optimum sowing time for different vegetables for kitchen gardening	36
4	Role of organic inputs in nutritional security	42
5	Irrigation management in kitchen gardening	45
6	Intercultural operations in kitchen/ nutria-garden	42
7	Post-harvest management and value addition	38

**Method demonstration under NARI project:**

S. No.	Title	No. of participants
1	Seed treatment with bio-pesticides like Trichoderma for soil borne disease management in kitchen garden	20
2	Nursery management techniques	18
3	Method and spacing for seedlings planting in nutri- garden	15
4	Preparation of raised beds for sowing of vegetable seed	17
5	Proper harvesting time and method of different vegetables	20
6	Roof-top water harvesting for kitchen gardening	14
7	Farm prepared botanical pesticides and their use in kitchen garden	18
8	Intercultural operations for weed management	13

**Note:****Themes of livestock FLDs and OFTs for Annual Progress Report 2022**

The FLDs and OFTs under livestock may be classified as per themes given below for APR

SN	Theme	Different aspects to be covered
01	Animal Breeding Management	Evaluation or introduction of any livestock breed i.e. cattle, buffalo, sheep, goat, poultry etc. Improvement in fertility, reproductive traits i.e. Age at first calving, service period and calving interval etc
02	Animal Nutrition Management	Feed and fodder trials including feed additives, bypass fat and protein, colostrum feeding, mineral mixture, chelated mineral mixture, azolla, microbial feeds (probiotics etc), urea treated straws and UMMB or feed supplements etc
03	Animal Production Management	Type of housing provided, manger or water trough etc to the livestock for improving animal comfort and measures followed for clean milk production etc
04	Health and Disease Management	Deworming of all categories of livestock for control of endo-worms and ecto-parasites, vaccination and to reduce the calf mortality, mastitis incidence in livestock etc
05	Others, if any	Any other aspect which is not covered under above 4 themes mentioned can be put in this category.