PROFORMA FOR PREPARATION OF ANNUAL REPORT of KVK, Pali
(January - December, 2021)

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	1136	371	1550
Rural youths	12	202	66	268
Extension functionaries	2	30	10	40
Sponsored Training	26	549	279	828
Vocational Training	5	72	31	103
Total	**117**	**1989**	**757**	**2789**

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

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	40	20	-
Pulses	60	30	-
Cereals	20	10	-
Vegetables	28	11	-
Other crops	14	12	-
Hybrid crops	-	-	
Total	**162**	**83**	-
Livestock & Fisheries	35	-	55
Other enterprises	97	-	97
Total	**132**	**-**	**152**
Grand Total	**294**	**83**	**152**

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	6	18	18
Livestock	-	-	-
Various enterprises	2	6	6
Total			
Grand Total	**8**	**24**	**24**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	461	13265
Other extension activities	81	0
Total	**542**	**13265**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Total
Pali	Text only	25	12	20	25	25	25	132
	Voice only	0	0	0	0	0	0	0
	Voice & Text both	0	0	0	0	0	0	0
	Total Messages	25	12	20	25	25	25	132
	Total farmers Benefitted	**440**	**80**	**250**	**357**	**150**	**370**	**1647**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	108.99	2,38,140
Planting material (No.)	37,402	65,070
Bio-Products (kg)	11,868	1,30,790
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	92	0
Water	78	0
Plant	0	0
Total	**170**	**0**

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	03
3	Meetings	05
4	Trainings for KVK officials	04
5	Visits of KVK officials	05
6	Book published	01
7	Training Manual	01
8	Book chapters	02
9	Research papers	04
10	Lead papers	02
11	Seminar papers	08
12	Extension folder	05
13	Proceedings	02
14	Award & recognition	01

DETAIL REPORT OF APR–2020 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	cazrikvkpali@gmail.com

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	director.cazri@icar.gov.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Dheeraj Singh	-	9414194005	dheerajthakurala@yahoo.com, dheeraj.singh@icar.gov.in

1.4. Year of sanction: 1992

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

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	172200	19.9.2008	Permanent	Gen.	-	-	-
2	Subject Matter Specialist	Dr. M. K. Chaudhary	T-9 (SMS)	Agronomy	Level-12	122900	30.11.1996	Permanent	Gen.	-	-	-
3	Subject Matter Specialist	-	T-6 (SMS)	Agril. Extn.	-	-	-	-	ST	-	-	-
4	Subject Matter Specialist	Dr. Aishwarya Dudi	T-7-8 (SMS)	Home Science	Level-11	88400	9.8.2007	Permanent	OBC	-	-	-
5	Subject Matter Specialist	-	T-6 (SMS)	Animal Science	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Dr. A. S. Tetarwal	T-6 (SMS)	Plant Protection	Level-10	69000	24.04.2021	Permanent	Gen.	-	-	-
7	Subject Matter Specialist	Dr. Chandan Kumar	T-6 (SMS)	Horticulture	Level-10	67000	22.2.2014	Permanent	OBC	-	-	-
8	Programme Assistant	-	T-4	-	-	-	-	-	-	-	-	-
9	Computer Programmer	Sh. P. K. Tomar	T-5 (Comp.)	Computer	Level-6	55200	5.112008	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	27900	19.01.2015	Permanent	SC	-	-	-
15	Supporting staff	Sh. Tara Ram	Cook	-	Level-2	38600	30.11.1996	Permanent	ST	-	-	-
16	Supporting staff	Sh. Bhola Ram	R/ M	-	Level-2	36100	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
	Total	**40.0**

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	123885 Kms	Working condition
Tractor	2018	4,64,000	1001.8 Hrs	Working condition
Tractor	2019	7,86,000	593.9 Hrs	Working condition

C) Equipment & 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

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

Date	***Name and Designation of Participants***	***Salient Recommendations***	***Action taken***
Dec.18, 2020	1. डॉ. ओ.पी. यादव, निदेशक, काजरी, जोधपुर 2. डॉ. एस.के. सिंह, निदेशक, अटारी, जोधपुर 3. डॉ. आर. एस. मेहता, प्रधान वैज्ञानिक, आर.आर.एस. काजरी, पाली 4. डॉ. धीरज सिंह, अध्यक्ष, केवीके, पाली 5. डॉ. बी.एस. राठौड़, अध्यक्ष, केवीके, जोधपुर 6. डॉ. त्रिलोकी सिंह, अध्यक्ष, केवीके, भुज 7. डॉ. महेंद्र कुमार, एसोशीएट प्रोफेसर, प्रसार षिक्षा निदेषालय, कृषि विष्वविद्यालय, जोधपुर 8. श्री पी.एल. रेगर, वैज्ञानिक, आर. आर.एस. काजरी, पाली 9. डॉ. सीता राम मीणा, वैज्ञानिक, आर.आर.एस. काजरी, पाली 10. डॉ. एम.बी. नूर, वैज्ञानिक, आर. आर.एस. काजरी, पाली 11. डॉ. कमला चौधरी, वैज्ञानिक, आर. आर.एस. काजरी, पाली 12. डॉ. मनोज पंवार, वरिष्ठ चिकित्सा अधिकारी, पषुपालन विभाग, पाली 13. डॉ. रोटे, वरिष्ठ चिकित्सा अधिकारी, पषुपालन विभाग, पाली 14. श्री विनोद दधीच, जिला विकास प्रबंधक, नाबार्ड, पाली	डॉ. ओ.पी. यादव, निदेशक, काजरी, जोधपुर ने सुझाव दिये कि– 1. किसानों की आय बढ़ाने हेतु बागवानी और वानिकी का कृषि के साथ समन्वय हो। इस दिशा में कृषि विज्ञान केंद्र को कुमठ, गोंदा तथा कैर पर अधिक कार्य करने की जरूरत है। 2. केंद्र को मिट्टी तथा पानी का परीक्षण करने के उपरांत ही प्रथम पंक्ति प्रदर्शन लगाने चाहिए। 3. केंद्र को पशुपालन पर भी ध्यान देने की जरूरत है तथा इस दिशा में पाली के पशुपालन विभाग के साथ सहयोग बढ़ाना चाहिए। 4. गृह विज्ञान में केंद्र को स्वयं सहायता समूह पर विशेष ध्यान देना चाहिए।	➢ इस दिशा में समुचित कार्य किया गया है तथा रोहट और मारवार जंक्शन में बेर, कुमठ तथा गोंदा को कृषि के साथ समन्वित किया गया है। ➢ केंद्र में मिट्टी तथा पनि का परीक्षण अनिवार्य कर दिया गया है। ➢ इस दिशा में पशुपालन विभाग के साथ संयुक्त प्रशिक्षण किया जा रहा है। ➢ इस वर्ष 4 स्वयं सहायता समूह बनाए गए।
		डॉ. एस.के. सिंह, निदेशक, अटारी, जोधपुर 1. ज्वार पर नई ओएफटी की जरूरत है। चने में पौधे से पौधे की दूरी तथा बीज दर को क्षेत्र और मिट्टी के अनुसार निर्धारित करने की जरूरत है। 2. प्रशिक्षण का शीर्षक स्पष्ट होने चाहिए तथा लेसन प्लान का समावेश होना चाहिए। हरेक कार्यक्रम में महिलाओं की हिस्सेदारी स्पष्ट होनी चाहिए।	➢ निर्देशानुसार कार्य किया जा रहा है। ➢ प्रशिक्षण को लेसन प्लान के अनुसार आयोजित किया जा रहा है तथा महिलाओं की हिस्सेदारी बढ़ायी जा रही है। ➢ मुर्गी इकाई की स्थापना की गई है।
		डॉ. मनोज पंवार, वरिष्ठ चिकित्सा अधिकारी,	➢ केंद्र इस दिशा में

	15. श्री जितेन्द्र भाखर, क्षेत्रीय प्रबंधक, ईफको, पाली 16. डॉ. एम. के. चौधरी, विषय विषेषज्ञ, सस्य, के.वी.के. पाली 17. डॉ. ऐष्वर्य डूडी, विषय विषेषज्ञ, गृह विज्ञान, के.वी.के. पाली 18. डॉ. चन्दन कुमार, विषय विषेषज्ञ, उद्यान, के.वी.के. पाली 19. डॉ. सविता सिंघल, केवीके, जोधपुर 20. श्री आर.आर. मेघवाल, केवीके, जोधपुर 21. श्री पी.के. तोमर, वरिष्ठ तकनिकी सहायक, कम्प्यूटर, के.वी.के. पाली 22. श्री भंवर सिंह, किसान 23. श्री चुन्नी लाल, किसान 24. श्री अभय साहू, कृषि–उद्यमी 25. श्री गोविंद राम, कृषक 26. श्री कासिम खान, कृषक 27. श्री गोरधन सिंह, कृषक, गांव–चेलावास, मारवाड़ जंक्षन, पाली 28. श्रीमती सूरज देवी, कृषक, चिमनपुरा, पाली 29. श्री देदा राम, कृषक, गांव–गाजनगढ़, पाली	पषुपालन विभाग, पाली 1. केंद्र पर बकरी तथा भेड़ संबंधित कार्यक्रमों की कमी है तथा पशुपालन पर विशेष ध्यान देने की सख्त जरूरत है	पशुपालन विभाग के साथ संयुक्त प्रयास कर रहा है।
		श्री विनोद दधीच, जिला विकास प्रबंधक, नाबार्ड, पाली 1. कृषि विज्ञान केंद्र को एफ पी ओ पर चयन केंद्रित करना चाहिए तथा केंद्र के विकास के लिए नाबार्ड को प्रोजेक्ट सबमिट करें।	➢ निर्देशानुसार कार्य कर लिया गया है।
		डॉ. पी.एल. रेगर, वरिष्ठ वैज्ञानिक, आर.आर. एस. काजरी, पाली 1. संरक्षित नमी पर उगने वाली किस्मों का चयन किया जाये और किसानों को इसके प्रयोग के लिये प्रोत्साहित किया जाये।	➢ चने में आर एस जी 974 और सरसों में उर्वशी को बढ़ावा दिया गया है।
		डॉ. आर. एस. मेहता, प्रधान वैज्ञानिक, आर. आर.एस. काजरी, पाली 1. सरसों की नवीनतम किस्मों का प्रदर्शन लगाना चाहिये।	➢ निर्देशानुसार कार्य कर लिया गया है।
		श्री अभय साहू, कृषि–उद्यमी 1. किसानों को नयी व उन्नत कृषि मशीनरी और नवीनतम बीजों से अवगत कराया जाना चाहिये।	➢ निर्देशानुसार कार्य कर लिया गया है।
		श्री कासिम खान, कृषक 1. केंद्र द्वारा मुर्गी पालन हेतु विशेष सब्सिडी प्रदान करने की व्यवस्था की जानी चाहिए।	➢ इस दिशा में नाबार्ड तथा अन्य सहभागी विभागों से संपर्क किया गया है।
		श्रीमती सूरज देवी, कृषक, चिमनपुरा, पाली 1. गृह वाटिका हेतु जैविक कीट तथा बीमारी नियंत्रण के उपाय बताने चाहिए तथा खारे पानी में उगनी वाली सब्जियों पर ध्यान देना चाहिए।	➢ निर्देशानुसार कार्य कर लिया गया है तथा पालक, चंदलाई, चुकंदर, पत्ता गोभी तथा बैंगन पर विशेष ध्यान दिया गया है।

2. DETAILS OF DISTRICT (2021)

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 taped 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, especially 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 slop 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 Torripsamments *Ustochreptic Camborthids* (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 *Typic Camborthids* (Map Unit 122)	Very deep, well drained, coarse loamy soil on very gently sloping plain with sandy surface, moderately eroded, associated with: Shallow, well drained, fine loamy soil, slightly eroded, slightly saline	196300
3.	Typic Camborthids *Typic Camborthids* (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 *Typic Camborthids* (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 (2019)**

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 2020

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
Jan.-21	0.0	25.3	6.9	34.7
Feb.-21	0.0	31.3	11.5	17.2
March-21	0.0	36.8	18.1	21.0
Apr.-21	0.0	40.0	22.0	17.7
May-21	34.0	39.3	26.5	31.4
June-21	21.8	38.0	27.6	49.2
July-21	189.7	36.4	28.0	52.6
Aug.-21	17.0	35.0	26.6	51.7
Sept.-21	286.0	33.0	25.5	66.4
Oct.-21	1.2	34.1	20.1	45.1
Nov.-21	0.9	30.8	12.7	30.3
Dec.-21	5.5	22.5	8.4	25.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred	2485	N.A.	N.A.
Indigenous	413549	47000	2.79
Buffalo	313531	195000	4.29
Sheep			
Crossbred	-	-	-
Indigenous	1360904	1848107*	1.358**
Goats	605755	29000	0.57
Pigs			
Crossbred	-	-	-
Indigenous	13429	N.A.	N.A.
Rabbits	90	N.A.	N.A.
Poultry			
Hens	-	-	-
Desi	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 (2021)

S..No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Rohat	Rohat	• Rana • Kala papal ki dhani • Malwa	• Green gram, • Mothbean, • Sorghum, • Sesame • Pearl millet • Cowpea	• High intensity of weed • Low yield due to low rainfall • Fodder scarcity • Low soil fertility	Rainfed farming
2	Pali	Pali	• Rupawas • Dayalpura • Kenpura • Kerla	• Mustard • Gram, • Wheat, • Barley • Sesame, • Green gram, • Sorghum • Cowpea	• Saline soil • Low rainfall • Fodder scarcity • High density of weed	Rainfed farming
3	Marwar Jn.	Marwar Jn.	• Devli • Chelawas • Dudhod • Kharchi ki dhani	• Greengram • Sesame • Sorghum • Henna • Wheat • Barley • Mustard • Chickpea • Cumin	• Saline soil • High weed intensity • Low soil fertility • Low rainfall	Rainfed farming
4	Sojat	Sojat	• Chopda • Surayata • Dinawas	• Greengram • Sesame • Cowpea • Sorghum • Henna • Chickpea • Wheat • Mustard • Barley • Cumin • Fennel	• Saline soil • Low soil fertility • High weed intensity	Rainfed farming
5	Raipur	Raipur	• Haziwas • Sendra • Devli	• Cumin • Wheat • Mustard • Barley • Isbagol • Greengram • Clusterbean • Sorghum • Sesame	• Low soil fertility • Low rainfall • High weed intensity	Rainfed farming

6	Jaitarn	Jaitarn	• Ramawas • Balada • Kishannagar	• Cumin • Fennel • Chickpea • Wheat • Mustard • Barley • Cotton • Sorghum • Sesame • Greengram	• Saline soil • High weed intensity • Low soil fertility	Rainfed farming
7	Sumerpur	Sumerpur	• Bamnera • Pumawa • Dhola	• Wheat • Mustard • Chickpea • Cumin • Castor • Cotton • Sorghum • Greengram • Sesame	• Low soil fertility • High weed intensity • Saline soil • Poor irrigation facility	Rainfed farming
8	Bali	Bali	• Sewadi • Nana • Koyalvav	• Maize • Sorghum • Mustard • Wheat • Sesame	• Low rainfall • Undulated land and hilly area • Small size of land holding • Poor irrigation facility	Rainfed farming
9	Desuri	Desuri	• Ghanerav • Narlai	• Maize • Sorghum • Sesame • Greengram • Mustard • Wheat	• Undulated land and hilly area • Small size of land holding • Poor irrigation facility	Rainfed farming
10	Rani	Rani	• Genri • Pilovani	• Cotton • Mustard • Wheat • Chickpea • Greengram • Sorghum	• Low soil fertility • High weed intensity • Unavailability of irrigation facility • Low rainfall	Rainfed farming

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Chickpea	• Varietal intervention • Introduction of raifed variety like RSG 974 • Integrated disease management (Fusarium wilt, dry root rot) • Integrated insect-pest management (Pod borer, Helicoverpa, cut worm, agrotis sp.)

Mustard	• Varietal intervention • Demonstration of salinity tolerant variety CS 54 • Integrated nutrient management • Management of orobanchae by crop protection • Integrated insect-pest management (mustard saw fly, aphid and painted bug infestation)
Wheat	• Dissemination of salt tolerant variety like KRL 210/KRL 213 • Introduction of high yielding variety DBW 187/Raj 4238 • Integrated weed management • Termite management
Cumin	• Integrated disease management • Varietal intervention (GC 4) • Innovation of line sowing in cumin crop • Intergraded nutrient management
Dhaman Grass	• High yielding varieties in waste lands • Development of *gochar* land
Greengram	• Varietal intervention • Dissemination of high yielding variety in rainfed condition (GAM 5) • Intergraded disease management (Mungbean leaf curl virus) • Integrated insect-pest management (pod borer complex and sucking insects like aphid, whitefly, thrips etc.)
Napier grass	• Varietal intervention • Introduction of napier grass in irrigated area
Sesame	• Varietal intervention • Demonstrated drought tolerant variety (RT 351) • Integrated insect-pest and disease management (Pod borer, phyllody incidence, sucking insects like leaf hopper, whitefly, aphid, thrips) • Recommended seed rate with line sowing • Weed management
Clusterbean	• Varietal intervention • Demonstrated drought tolerant variety (RGC 1017) • Introduction of drought tolerant varieties • Integrated disease management
Mothbean	• Introduction of high yielding short duration variety RMO 225 • Introduction of drought tolerant varieties (CZM 2) • Integrated nutrient management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2020

OFT (Technology Assessment)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
8	8	24	24	125	93	281	314

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**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Farmers	50	67	1200	1532	200	461	6000	13265
Rural youth	10	12	100	270				
Extn. Functionaries	water	2	40	40				
Sponsored	15	26	200	828				
Vocational	3	5	50	103				

Seed Production (q)			Planting material (Nos.)		
5			6		
Target	**Achievement**	**Distributed to no. of farmers**	**Target**	**Achievement**	**Distributed to no. of farmers**
40.00	**108.99**		**20000**	**37402**	

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various *crops* by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated 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	*Effect of different pruning methods on the yield of Lasoda (Gonda)*	3	3
Integrated Pest Management	Brinjal	Minimizing losses due to fruit borer in brinjal	3	3
	Chilli	Production of Chilli crop under drip irrigation with silver plastic mulch	3	3
Integrated Disease Management	Fennel	Controlling wilt in fennel spice crop	3	3
Small Scale Income Generation Enterprises				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post-Harvest	Arid fruit/	Arid fruit and vegetable processing for	3	3

Technology / Value addition	vegetable	food and nutritional security		
Drudgery Reduction	Weeder	Innovative weeders for drudgery reduction	3	3
Storage Technique				
Others (Pl. specify)				
Total =8			24	24

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)				
Total				

Summary of technologies assessed under various enterprises by KVKs

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

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

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

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

(The model for preparing the same is furnished below)

INTEGRATED CROP MANAGEMENT

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

Technology Assessed: *Drip irrigation 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 (T2) had net return of Rs. 1,84,400/- with B:C ratio 2.7 as compared to farmer practice with net return of Rs. 1,10,500/- with B:C ratio of 2.1.*

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	205	1,10,500	2.1
T2. Recommended (drip irrigation with black plastic mulch)		310	1,84,400	2.7
T3. Recommended practice (Drip irrigation with straw mulch)		245	1,65,000	2.4

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*** *Production of tomato crop under drip irrigation with silver plastic mulch. The recommended practice (T2) had net return of Rs. 1,53,092/- with B:C ratio 2.5 as compared to farmer practice (T1) with net return of Rs. 90,243/- with B:C ratio of 1.3.*

Table Performance of Lasoda crop under assessment

Technology Option	No. of trials	% Defoliation	Yield (q/ha)	Net Returns (Rs./ha)	B:C ratio
T1. Local practices (Natural defoliation)	3	0.0	86.2	90,243	1.3
T2. Recommended (hand pruning)		100	144.0	1,53,092	2.5
T3. Recommended practice (Two foliar spray of Ethrel @ 4ml/lit. water during first and second week of January)		49.0	135.3	1,40,965	2.3

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. The effect of treatments had net return of Rs. 36830/ha with B:C ratio 3.2 as compared to farmer practice with net return of Rs. 19,316/ha- with B:C ratio of 1.5.*

Table Performance wheat under assessment

Technology Option	No. of trials	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmer practice	3	24.2	19316	1.5
Var. Raj 3077		30.6	31825	2.8
Var. KRL 210		34.5	36830	3.2

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. 41100/ha- with B:C ratio 2.9 as compared to farmer practice with net return of Rs. 38860/ha- with B:C ratio of 1.8.*

Table Performance of Mustard under assessment

Technology Option	No. of trials	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmer practice	3	12.4	38860	1.8
Recommended practice (30 cm)		14.6	37400	2.6
Row spacing at (45 cm)		15.7	41100	2.9

INTEGRATED PEST MANAGEMENT

Problem definition: *Minimize losses due to fruit borer in brinjal*

Technology Assessed: *Bio-control using marigold and spray of NPV*

KVK, Pali in Rajasthan conducted on-farm trial to ***assess*** *Minimize losses due to fruit borer in brinjal. The effect of recommended treatments had net return of Rs. 91,250/ha- with B:C ratio 2.6 as compared to farmer practice with net return of Rs. 47,900/ha- with B:C ratio of 1.9.*

Table Performance of brinjal under assessment

Technology Option	No. of trials	% fruit damage	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmers Practice	3	46	205	47,900	1.9
Marigold line, Dimethoate 1ml /lit at flowering time and Acephate 1 gram/lit at 45 fruiting time		28	262	73,850	2.3
Marigold line, Dimethoate ½ ml/lit at flowering time and Acephate 0.5 gram/lit at 45 fruiting time +Ha NPV 250 LE @ 0.4 ml/lit of water at 30 DAP & 45 DAP		15	298	91,250	2.6

INTEGRATED DISEASE MANAGEMENT

Problem definition: *Controlling wilt in fennel spice crop*

Technology Assessed: *Seed treatment with bio-agent*

KVK, Pali in Rajasthan conducted on-farm trial to ***assess*** *Controlling wilt in fennel spice crop. The effect of recommended treatments had net return of Rs. 94,350/ha- with B:C ratio 3.5 as compared to farmer practice with net return of Rs. 61,350/ha- with B:C ratio of 2.7.*

Table Performance of fennel under assessment

Technology Option	No. of trials	% Wilt incidence	Yield (q/ha)	Net Returns (Rs. /ha)	B:C ratio
Farmers Practice	3	*26*	*12.2*	*61,350*	*2.7*
Seed treatment with Trichoderma @ 6 gm/kg seed		*17*	*13.8*	*73,900*	*3.0*
Seed treatment with Carbendism + Trichoderma @ 4 gm/kg seed + Soil application of 60 kg FYM + 2.5 kg Trichoderma		*9*	*16.5*	*94,350*	*3.5*

POST HARVEST TECHNOLOGY / VALUE ADDITION

Problem definition: *Arid fruit and vegetable processing for food and nutritional security.*

Technology Assessed: *Value addition of arid fruit and vegetable*

KVK, Pali in Rajasthan conducted on-farm trial to ***assess*** *Arid fruit and vegetable processing for food and nutritional security. The effect of recommended practice had net return of Rs. 45.0/- as compared to farmer practice with net return of Rs. 6.5/- with B: C ratio of 6.5 and 1.0 respectively.*

Table Assessment of income of farm woman under trials

Technology Option	No. of trials	% increase income	Net Returns (Rs. /kg)	B:C ratio
Farmer practice (No value addition)	3	*0*	*6.5*	*1.0*
Value addition of seasonal fruit and vegetables by traditional method		*12.6*	*18.4*	*1.6*
Value addition of fruit and vegetable by different technology suggested by SKRAU, Bikaner		*44.3*	*45.0*	*6.5*

DRUDGERY REDUCTION

Problem definition: *Innovative weeders for drudgery reduction*

Technology Assessed: *Improved weeders*

KVK, Pali in Rajasthan conducted on-farm trial to ***assess:*** *Innovative weeders for drudgery reduction. The effect of recommended treatments had net time saving of 25.1% as compared to farmer practice.*

Table Performance of weeders under assessment

Technology Option	No. of trials	Cost (Rs./piece)	Time consumed (hours/ha)	Percent decrease over local (%)
Farmers practice	3	*260*	*22.4*	*0.00*
Peg weeder		*520*	*20.6*	*8.7*
Two wheel weeder		*680*	*17.9*	*25.1*

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021 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.	**Sesame**	Integrated crop management	• Improved variety (RT 351) • Timely sowing • sowing at 45 X10 cm spacing • Seed treatment with Carbendism 2 gm • Seed treatment with Tricoderma 4 gm/kg. seed	• Result demonstration • Extension literature • Extension activities viz. Field day, Kisan Goshthi, Field visit etc.	8	120	210
2.	**Green gram**	Integrated crop management	• Improved variety (IPM 02-3) • For root rot treated seed with Tricoderma 4 gm/kg. seed • Seed treatment with Carbendazim 2 gm /kg seed.	• Result demonstration • Extension literature • Field day, Kisan Goshthi	12	140	170
3.	**Vegetables**	Varietal evaluation	Improved Varieties Line sowing Drip irrigation system Recommended dose of NPK and plant protection measures	• Result demonstration • Extension activities	14	65	110
4.	**Mustard**	Integrated crop management	• Improved variety (DRMRIJ 31) • Adoption of reduce tillage practices (3-4 plough/harrow) • Seed dressing with nitrogen fixing bacteria Azotobacter and phosphorus solubilizing bacteria (PSB) • Basal application of 40 kg S/ha through gypsum or elemental.	• Result demonstration • Extension literature • Extension activities viz. Field day, Kisan Gosthi, Field visit, farmers-scientist interaction etc.	15	124	298

5.	**Chickpea**	Varietal evaluation	• Improved variety (RSG 974) • Field preparation at right time, proper moisture, proper depth and planking. • Seed treatment with Carbendism @ 4 gm /kg seed for prevention of wilt & root rot.	• Result demonstration • Extension activities viz. Field Day, Field visit etc.	17	142	118
6.	**Wheat**	Varietal evaluation	• Improved **Wheat** var. Raj 4083/KRL 210 • Seed treatment with Chloropyriphos @ 4-5 ml /kg seed and Mancozeb 2.5gm/ kg seed for termite & seed born disease.	• Result demonstration • Extension literature • Extension activities viz. Field Day,	12	140	77
7.	**Barley**	Varietal evaluation	• Improved **Barley** var. RD 2715 • Seed treatment with Chloropyriphos @ 4 ml /kg • Line sowing at 22.5 cm for timely sowing & at 25 cm for late so-wn barley.	• Extension literature • Extension activities viz. Kisan Goshthi, Field visit etc.	10	115	95
8.	**Oat**	Varietal evaluation	• Improved **Oat** var. JHO 822 • Seed treatment with Chloropyriphos @ 4 ml /kg • Line sowing at 22.5 cm for timely sowing & at 25 cm for late so-wn barley.	• Extension literature • Extension activities viz. Kisan Goshthi, Field visit etc.	5	35	06
9.	**Napier grass**	Varietal evaluation	• Improved **Napier grass** var. CO 5 • Transplanting in lines at 3x2 feet for • Fertilizers: N 60kg: P 40kg at basal and 25 kg N apply after every cutting • Cutting: 4-5 cm above ground	• Extension literature Extension activities viz. Kisan Goshthi, Field visit etc.	70	160	05
10.	**Cumin**	Varietal evaluation	• Improved **Cumin** var. GC-4 • Incorporation of 5 t/ha mustard residue during summer irrigate the field then plough by disc help to control wilt problem.	• Extension literature • Extension activities viz. Field day, Kisan Goshthi, Field visit etc.	08	78	74

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

b. Details of FLDs implemented during 2021 (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, Bio-fertilizer	Kharif 2021	20	10	6	14	20	Low rainfall
2.	Green gram	Varietal evaluation	Seed, Bio-fertilizer	Kharif 2021	20	10	8	12	20	
3.	Napier grass	Varietal evaluation	Line sowing, Drip irrigation	Kharif 2021	5	5	4	16	20	
4.	Mustard	Varietal evaluation	Line sowing, Drip irrigation	Rabi 2021-22	50	20	12	28	40	
5.	Wheat	Varietal evaluation	Line sowing, Drip irrigation	Rabi 2021-22	5	5	3	7	10	
6.	Barley	Varietal evaluation	Protected cultivation, Line sowing, Drip irrigation	Rabi 2021-22	5	5	2	8	10	
7.	Oat	Varietal evaluation	Line sowing, Drip irrigation	Rabi 2021-22	5	3	2	6	8	
8.	Chickpea	Varietal evaluation	Line sowing, Drip irrigation	Rabi 2021-22	40	20	14	26	40	
			TOTAL		**150**	**78**	**51**	**117**	**168**	

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 2021	Rainfed	Sandy loam	L	M	H	Greengram	1st week of July, 2021	Last week of Sept., 2021	556	16
Green gram	Kharif 2021	Rainfed	Sandy loam	L	M	H	Bajra	1st week of July 2021	Last week of Sept., 2021	556	16

Napier grass	Kharif 2021	Irrigated	Sandy loam	L	M	H	Barley	1st week of July, 2021	Perennial crop	556	16
Mustard	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	Greengram	2nd week of October, 2021	2nd week of Feb., 2022	556	16
Wheat	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	Greengram	2nd week of November, 2021	3rd week of March., 2022	556	16
Barley	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	Greengram	2nd week of November	3rd week of March., 2022	556	16
Oat	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	Greengram	2nd week of November	3rd week of March., 2022	556	16
Chickpea	Rabi 2021-22	Rainfed	Sandy loam	L	M	H	Sesame	3rd week of October	2nd week of Feb., 2022	556	16
Cumin	Rabi 2021-22	Irrigated	Sandy loam	L	M	H	Bajra	2nd week of November	3rd week of March., 2022	556	16

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	GC 4 – Disease resistant like wilt, powdery mildew disease and higher production and good quality seed
3	Raj 4238/KRL 210 – Higher production of grain and good quality of seed in arid region
4	RD 2715 – Higher yield in rainfed condition, disease resistant variety
5	Greengram var. IPM 2-03 – short duration, early maturity, suitable for rainfed conditions
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	Moth (CZM 2) – Drought tolerant and short duration, production even under low rainfall,

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	7		426	
2	Farmers Training	6		140	
3	Media coverage	5		-	
4	Training for extension functionaries	1		30	

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	20	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Mustard																		
Mustard	ICM	Seed, Line sowing, PP measures	(DRMRIJ 31)	100	50	22.7	14.2	18.2	13.4	27.3	28283	80535	52252	2.85	24770	63278	38508	2.55
Mustard***	ICM	Seed, Line sowing, PP measures	(DRMRIJ 31)	40	20	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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 is standing in the field**

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	20	10	6.6	4.6	5.6	4.5	24.4	17439.5	42684.5	25245	2.447576	15800	32958	17158	2.08
Chickpea																		
Chickpea	Varietal intervention	Line sowing, Bio-fertilizer, PP measures	RSG 974	40	20	23.6	12.8	17.1	13.8	24.3	28016	83363	55347	2.98	25926	67275	41349	2.59
Chickpea *	Varietal intervention	Line sowing, Bio-fertilizer, PP measures	RSG 974	40	20	-	-	-	-	-	-	-	-	-	-	-	-	-

*** Crop is standing in the field**

* 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)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Sesame (RT 351)****	Varietal intervention	Seed, Bio-fertilizer, line sowing	40	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green gram (GM 6)****	Varietal intervention	Seed, Bio-fertilizer, line	20	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		sowing																	
Cereals																			
Wheat																			
Wheat (Raj 4238)	ICM	Seed, Bio-fertilizer	23	9	47.4	32	38.9	31.5	23.5	-	-	37216	74883	37667	2.01	33118	60638	27520	1.83
Wheat (Karan Vandana)	ICM	Seed, Bio-fertilizer	10	4															
Barley																			
Barley (RD 2715)	ICM	Seed, Bio-fertilizer	14	5	45.7	27.5	33.6	27.4	26.6	-	-	26865	51240	24375	1.9	23580	41785	18205	1.7
Barley (RD 2715)	ICM	Seed, Bio-fertilizer	10	4															
Spices & condiments																			
Cumin																			
Fodder Crops																			
Oat (JHO 822)	ICM	Seed, Line sowing	6	3	472	277.7	354	279.2	26.8			23500	70800	47300	3.01	23300	55840	32540	2.39
Oat (JHO 822)	ICM	Seed, Line sowing	8	3															

* 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
**** Crop failed due to uneven rain and long drive spell

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)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Vegetables																			
Okra	Varietal evaluation	Arka Anamika	13	5	180	135	155	124	25.0			42760	186000	143240	4.35	41300	148800	107500	3.60
Tomato	Varietal evaluation	Arka Rakshak F-1	05	02	320	250	290	192	33.7			61250	290000	228750	4.73	59100	192000	132900	3.25

Onion	Varietal evaluation	Bhima Red	10	04	280	240	260	195	25.0			51600	208000	156400	4.03	49000	156000	107000	3.18
Spices & condiments																			
Fruit crops																			
Papaya	Varietal evaluation	Red Lady 786	14	12	615.7	533.4	574.5	415	38.43			144600	689400	544800	4.77	136800	498000	361200	3.64

* 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	10	30	-	-	20-22 % milk increase	-	-	-	-	-	-	-	-	-	-
	Increasing milk production and infertility check	Azolla	25	25	-	-	15-18% milk production 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 demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Vermi Compost																
Increasing soil fertility	*Assenia foeatida*	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Azolla																
Azolla	*Improved*	60	60	-	-	Increasing 15-18% milk in cow and buffalo	-	-	-	-	-	-	-	-	-	-
Kitchen garden																
Balanced diet	High yielding varieties	10	10	-	-	Self- sufficient for home consumption with saving of Rs. 7500/- per year	-	-	-	-		-	-	-	-	-

Farm implements																
Time saving	Serrated sickle, rotovator, farm cutter, mechanized spray machine	12	12	-	-	Saving of time	-	-	-	-	-	-	-	-	-	-

FLD on Women Empowerment

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

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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	2	32	0	32	9	0	0	41	0	41
Soil & water conservatioin	1	16	0	16	4	0	4	20	0	20
Integrated nutrient management	0	0		0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Fodder production	2	33	0	33	9	0	9		0	43
Total	**5**	**81**	**0**	**81**	**22**	**0**	**13**	**61**	**0**	**104**
II Horticulture										
a) Vegetable Crops										
Production of low value and high-volume crops	1	19	0	19	3	0	3	22	0	22
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	14	3	17	3	0	3	17	3	20
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	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**2**	**33**	**3**	**36**	**6**	**0**	**6**	**39**	**3**	**42**
b) Fruits										
Training and pruning	1	15	0	15	2	0	2	17	0	17
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
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	14	0	14	5	0	5	19	0	19
Plant propagation techniques	1	20	0	20	0	0	0	20	0	20
Others (pl specify)	0	0	0	0	0	0	0	0	0	0

Total (b)	**3**	**49**	**0**	**49**	**7**	**0**	**7**	**56**	**0**	**56**
c) Ornamental Plants										
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
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology 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
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**5**	**82**	**3**	**85**	**13**	**0**	**13**	**95**	**3**	**98**
III Soil Health and Fertility Management										
Soil fertility management	1	17	0	17	5	0	5	22	0	22
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	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
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	0	0	0	0	0	0	0	0	0	0

Efficiency										
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**17**	**0**	**17**	**5**	**0**	**5**	**22**	**0**	**22**
IV Livestock Production and Management										
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	0	0	0	0	0	0	0	0	0	0
Feed & fodder technology	1	16	0	16	3	0	3	19	0	19
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
Total	**1**	**16**	**0**	**16**	**3**	**0**	**3**	**19**	**0**	**19**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	16	16	0	8	8	0	24	24
Design and development of low/minimum cost diet	1	0	15	15	0	3	3	0	18	18
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	1	0	16	16	0	4	4	0	20	20
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	16	9	25	0	5	5	16	14	30
Value addition	1	0	14	14	0	5	5	0	19	19
Women empowerment	1	0	12	12	0	9	9	0	21	21
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
Income generation	0	0	0	0	0	0	0	0	0	0
Total	**6**	**16**	**82**	**98**	**0**	**34**	**34**	**16**	**116**	**132**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	2	34	0	34	7	0	7	41	0	41
Integrated Disease Management	1	18	0	18	4	0	4	22	0	22
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**3**	**52**	**0**	**52**	**11**	**0**	**11**	**63**	**0**	**63**
VIII Fisheries										
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
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	0	0	0	0	0	0	0	0	0	0
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	33	4	37	8	0	8	41	4	45
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**33**	**4**	**37**	**8**	**0**	**8**	**41**	**4**	**45**
X Capacity Building and Group Dynamics										
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	0	0	0	0	0	0	0	0	0	0
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**23**	**297**	**89**	**386**	**62**	**34**	**87**	**317**	**123**	**483**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	36	0	36	12	0	12	48	0	48
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	2	39	0	39	15	0	15	54	0	54
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 conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	2	35	0	35	13	0	13	48	0	48
Fodder production	2	41	0	41	10	0	10	51	0	51

Total	**11**	**216**	**0**	**216**	**73**	**0**	**73**	**289**	**0**	**289**
II Horticulture										
a) Vegetable Crops										
Production of low value and high-volume crops	2	36	0	36	9	0	9	45	0	45
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
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	18	0	18	5	0	5	23	0	23
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**4**	**84**	**0**	**84**	**23**	**0**	**23**	**107**	**0**	**107**
b) Fruits										
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	2	37	0	37	11	0	11	48	0	48
Management of young plants/orchards	1	18	0	18	0	0	0	18	0	18
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	0	0	0	0	0	0	0	0	0	0
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
Total (b)	**5**	**89**	**0**	**89**	**22**	**0**	**22**	**111**	**0**	**111**
c) Ornamental Plants										
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	1	12	0	12	3	0	3	15	0	15
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**1**	**12**	**0**	**12**	**3**	**0**	**3**	**15**	**0**	**15**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	13	4	17	2	0	2	15	4	19
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
Total (f)	**1**	**13**	**4**	**17**	**2**	**0**	**2**	**15**	**4**	**19**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology 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

Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**11**	**198**	**4**	**202**	**50**	**0**	**50**	**248**	**4**	**252**
III Soil Health and Fertility Management										
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	18	0	18	7	0	7	25	0	25
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
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
Total	**1**	**18**	**0**	**18**	**7**	**0**	**7**	**25**	**0**	**25**
IV Livestock Production and Management										
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	0	0	0	0	0	0	0	0	0	0
Feed & fodder technology	2	32	0	32	7	0	7	39	0	39
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
Total	**2**	**32**	**0**	**32**	**7**	**0**	**7**	**39**	**0**	**39**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	6	38	44	0	18	18	6	56	62
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	1	0	13	13	0	4	4	0	17	17
Minimization of nutrient loss in processing	1	0	0	0	0	0	0	0	0	0
Processing and cooking	2	0	33	33	0	8	8	0	41	41
Gender mainstreaming through SHGs	2	0	26	26	0	14	14	0	40	40
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	2	0	15	15	2	0	2	2	15	17
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	1	0	18	18	0	6	6	0	24	24
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**14**	**6**	**177**	**183**	**2**	**59**	**61**	**8**	**236**	**244**
VI Agril. Engineering										
Farm Machinary and its maintenance	2	46	0	46	9	0	9	55	0	55
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
Total	**2**	**46**	**0**	**46**	**9**	**0**	**9**	**55**	**0**	**55**
VII Plant Protection										
Integrated Pest Management	2	34	0	34	8	0	8	42	0	42
Integrated Disease Management	2	31	0	31	9	0	9	40	0	40
Bio-control of pests and diseases	1	16	0	16	5	0	5	21	0	21
Production of bio control agents and bio pesticides	1	15	0	17	4	0	4	19	0	19
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**6**	**96**	**0**	**98**	**26**	**0**	**26**	**122**	**0**	**122**
VIII Fisheries										
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
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	0	0	0	0	0	0	0	0	0	0
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	28	5	33	5	3	8	33	8	41
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**28**	**5**	**33**	**5**	**3**	**8**	**33**	**8**	**41**
X Capacity Building and Group Dynamics										
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	0	0	0	0	0	0	0	0	0	0
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry	0	0	0	0	0	0	0	0	0	0
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**49**	**640**	**186**	**828**	**179**	**62**	**241**	**819**	**248**	**1067**

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
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	36	0	36	12	0	12	48	0	48
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	2	39	0	39	15	0	15	54	0	54
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	5	97	0	97	32	0	23	129	0	129
Soil & water conservation	1	16	0	16	4	0	4	20	0	20
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	2	35	0	35	13	0	13	48	0	48
Others (pl specify)	4	74	0	74	19	0	19	51	0	94
Total	**16**	**297**	**0**	**297**	**95**	**0**	**86**	**350**	**0**	**393**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volumes crops	3	55	0	55	12	0	12	67	0	67
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	2	31	3	34	7	0	7	38	3	41
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	18	0	18	5	0	5	23	0	23
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**6**	**117**	**3**	**120**	**29**	**0**	**29**	**146**	**3**	**149**
b) Fruits										
Training and Pruning	2	30	0	30	8	0	8	38	0	38
Layout and Management of Orchards	1	19	0	19	5	0	5	24	0	24

Cultivation of Fruit	2	37	0	37	11	0	11	48	0	48
Management of young plants/orchards	1	18	0	18	0	0	0	18	0	18
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	14	0	14	5	0	5	19	0	19
Plant propagation techniques	1	20	0	20	0	0	0	20	0	20
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**8**	**138**	**0**	**138**	**29**	**0**	**29**	**167**	**0**	**167**
c) Ornamental Plants										
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	1	12	0	12	3	0	3	15	0	15
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**1**	**12**	**0**	**12**	**3**	**0**	**3**	**15**	**0**	**15**
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
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
Total (e)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	1	13	4	17	2	0	2	15	4	19
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
Total (f)	**1**	**13**	**4**	**17**	**2**	**0**	**2**	**15**	**4**	**19**
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology 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
Total (g)	0	0	0	0	0	0	0	0	0	0
GT (a-g)	**16**	**280**	**7**	**287**	**63**	**0**	**63**	**343**	**7**	**350**
III Soil Health and Fertility Management										

Soil fertility management	1	17	0	17	5	0	5	22	0	22
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	18	0	18	7	0	7	25	0	25
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**35**	**0**	**35**	**12**	**0**	**12**	**47**	**0**	**47**
IV Livestock Production and Management										
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	0	0	0	0	0	0	0	0	0	0
Feed & fodder technology	3	48	0	48	10	0	10	58	0	58
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
Total	**3**	**48**	**0**	**48**	**10**	**0**	**10**	**58**	**0**	**58**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	6	54	60	0	26	26	6	80	86
Design and development of low/minimum cost diet	2	0	33	33	0	6	6	0	39	39
Designing and development for high nutrient efficiency diet	1	0	13	13	0	4	4	0	17	17
Minimization of nutrient loss in processing	1	0	0	0	0	0	0	0	0	0
Processing and cooking	3	0	49	49	0	12	12	0	61	61
Gender mainstreaming through SHGs	2	0	26	26	0	14	14	0	40	40
Storage loss minimization techniques	1	16	9	25	0	5	5	16	14	30
Value addition	3	0	29	29	2	5	7	2	34	36
Women empowerment	2	0	28	28	0	15	15	0	43	43
Location specific drudgery reduction	0	0	0	0	0	0	0	0	0	0

technologies										
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	18	18	0	6	6	0	24	24
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**20**	**22**	**259**	**281**	**2**	**93**	**95**	**24**	**352**	**376**
VI Agril. Engineering										
Farm Machinery and its maintenance	2	46	0	46	9	0	9	55	0	55
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
Total	**2**	**46**	**0**	**46**	**9**	**0**	**9**	**55**	**0**	**55**
VII Plant Protection										
Integrated Pest Management	4	68	0	68	15	0	15	83	0	83
Integrated Disease Management	3	49	0	49	13	0	13	62	0	62
Bio-control of pests and diseases	1	16	0	16	5	0	5	21	0	21
Production of bio control agents and bio pesticides	1	15	0	17	4	0	4	19	0	19
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**9**	**148**	**0**	**150**	**37**	**0**	**37**	**185**	**0**	**185**
VIII Fisheries										
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	0	0	0	0	0	0	0	0	0	0

value addition										
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0
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	4	61	9	70	13	3	16	74	12	86
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**61**	**9**	**70**	**13**	**3**	**16**	**74**	**12**	**86**
X Capacity Building and Group Dynamics										
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	0	0	0	0	0	0	0	0	0	0
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	**72**	**937**	**275**	**1214**	**241**	**96**	**328**	**1136**	**371**	**1550**

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

Area of training	No. of courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	17	0	17	5	0	5	22	0	22
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	1	14	0	14	7	0	7	21	0	21
Mushroom Production	1	16	2	18	4	2	6	24	0	24
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Sericulture	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
Value addition	1	0	13	13	0	8	8	0	21	21
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
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
TOTAL	**4**	**47**	**15**	**62**	**16**	**10**	**26**	**67**	**21**	**88**

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

Area of training	No. of courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	1	19	3	22	5	0	5	24	3	27
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	17	5	22	0	0	0	17	5	22
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0

Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	1	18	5	23	3	0	3	21	3	24
Mushroom Production	2	24	6	30	6	3	9	30	9	39
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	19	0	19	4	0	4	23	0	23
Value addition	1	20	0	20	0	0	0	20	0	20
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	1	0	18	18	0	7	7	0	25	25
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
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
TOTAL	**8**	**117**	**37**	**154**	**18**	**10**	**28**	**135**	**45**	**180**

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

Area of training	No. of coufses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	36	3	39	10	0	10	46	3	49
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	1	17	5	22	0	0	0	17	5	22
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	2	32	5	37	10	0	10	42	3	45
Mushroom Production	3	40	8	48	10	5	15	54	9	63
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	19	0	19	4	0	4	23	0	23
Value addition	2	20	13	33	0	8	8	20	21	41
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0

Tailoring and Stitching	1	0	18	18	0	7	7	0	25	25
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
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
TOTAL	**12**	**164**	**52**	**216**	**34**	**20**	**54**	**202**	**66**	**268**

Details of trainings organized under ASCI

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
TOTAL										

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	15	1	16	4	0	4	15	5	20
Integrated Pest Management	1	13	2	15	5	4	5	15	5	20
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
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

TOTAL	**2**	**28**	**3**	**31**	**9**	**4**	**9**	**30**	**10**	**40**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
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
Production technology of crops	0	0	0	0	0	0	0	0	0	0
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	15	1	16	4	0	4	15	5	20
Integrated Pest Management	1	13	2	15	5	4	5	15	5	20
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
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
TOTAL	**2**	**28**	**3**	**31**	**9**	**4**	**9**	**30**	**10**	**40**

Table. Sponsored training programmes

Area of training	No. of courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	4	98	6	104	26	8	34	124	14	138
Commercial production of vegetables	0	0	0	0	0	0	0	0	0	0
Production and value addition										
Fruit Plants	2	54		54	6		6	60	0	60
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops	1	28	0	28	2	0	2	30	0	30
Soil health and fertility management	3	76	0	76	14		14	90	0	90
Production of Inputs at site	1	20	0	20	4	0	4	24	0	24
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	2	35	10	45	10	5	15	45	15	60
Total	**13**	**311**	**16**	**327**	**62**	**13**	**75**	**373**	**29**	**402**
Post-harvest technology and value addition										
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
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Farm machinery										
Farm machinery, tools and implements	1	18	0	18	7	0	7	25	0	25
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**18**	**0**	**18**	**7**	**0**	**7**	**25**	**0**	**25**
Livestock and fisheries										
Livestock production and management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	0	0	0	0	0	0	0	0	0	0
Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
Fisheries Management	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Home Science										
Household nutritional security	2	0	33	33	0	10	43	0	43	43
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	5	0	162	162	0	24	24	0	186	186
Balance diet of farm woman	1	0	15	15	0	6	6	0	21	21
Total	**8**	**0**	**210**	**210**	**0**	**40**	**73**	**0**	**250**	**250**
Agricultural Extension										
Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	4	118	0	118	25	8	33	151	0	151
Total	**4**	**118**	**0**	**118**	**25**	**8**	**33**	**151**	**0**	**151**
GRAND TOTAL	**26**	**447**	**226**	**673**	**94**	**61**	**188**	**549**	**279**	**828**

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
Crop production and management	0	0	0	0	0	0	0	0	0	0
Commercial floriculture	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Commercial vegetable production	0	0	0	0	0	0	0	0	0	0
Integrated crop management	0	0	0	0	0	0	0	0	0	0
Organic farming	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Post-harvest technology and value addition										
Value addition	1	0	14	14	0	7	7	0	21	21
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**14**	**14**	**0**	**7**	**7**	**0**	**21**	**21**
Livestock and fisheries										
Dairy farming	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Poultry farming	0	0	0	0	0	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Income generation activities										
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 and implements	1	16	0	16	5	0	5	21	0	21
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	13	4	17	0	5	5	17	5	22
Nursery, grafting etc.	1	15	5	20	0	0	0	15	5	20
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	1	14	0	14	5	0	5	19	0	19
Total	**4**	**58**	**9**	**67**	**10**	**5**	**15**	**72**	**10**	**82**
Agricultural Extension										
Capacity building and group dynamics	0	0	0	0	0	0	0	0	0	0
Motor rewinding	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**5**	**58**	**23**	**81**	**10**	**12**	**22**	**72**	**31**	**103**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	94	6245	23	6268
Diagnostic visits	63	315	13	328
Field Day	12	475	14	489
Group discussions	27	392	15	407

Kisan Ghosthi	19	247	18	265
Film Show	11	166	11	177
Self -help groups	2	40	6	46
Kisan Mela	1	115	10	125
Exhibition	2	91	5	96
Scientists' visit to farmers field	72	365	13	378
Farmers visit to KVK	27	1465	28	1493
Plant/animal health camps	1	41	4	45
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	1	34	6	40
Farmers' seminar/workshop	2	66	8	76
Method Demonstrations	43	322	25	347
Celebration of important days	11	429	19	448
Awareness programmes conducted	4	315	16	331
Exposure visits	0	0	0	0
Lectures, soil health camp	69	1850	56	1906
Total	**461**	**12973**	**290**	**13265**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	5
Newspaper coverage	15
Popular articles	7
Radio Talks	2
TV Talks	7
Animal health amps (Number of animals treated)	45
Others (pl. specify)	0
Total	**81**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
KVK, Pali	Text only	32	14	104	27	25	27	229
	Voice only	0	0	0	0	0	0	0
	Voice & Text both	0	0	0	0	0	0	0
	Total Messages	32	14	104	27	25	27	229
	Total farmers Benefitted	**578**	**94**	**4675**	**388**	**150**	**379**	**6264**

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organized Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
02	Gosthies	5	67	Organic farming, Fodder production, drip irrigation, ICM
	Lectures organized	8	92	ICT, IPM, INM, weed management
	Exhibition	0	0	
	Film show	4	82	Vermi-composting and azolla

	Fair	0	0	
	Farm Visit	9	91	Poultry unit, rainwater harvesting, fodder unit, crop cafeteria, model nursery and mushroom unit
	Diagnostic Practical	6	65	Cumin wilt, cuscuta management in henna, pod borer management in chickpea, fruit borer in vegetables
	Distribution of Literature (No.)	13	55	Napier grass, henna cultivation, KVK role, azola, vermicomposting
	Distribution of Seed (q)	0	0	
	Distribution of Planting materials (No.)	1	200	
	Bio Product distribution (Kg)	0	0	
	Bio Fertilizers (q)	0	0	
	Distribution of fingerlings	0	0	
	Distribution of Livestock specimen (No.)	0	0	
	Total number of farmers visited the technology week	**46**	**652**	

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Production (A)		
				2021		
				Quantity of seed produced (q) approx.	Value (Rs)	Number of farmers
Cereals						
	Wheat	KRL 210	-	27.60	1,93,200	
	Barley	RD 2715	-	4.0	12,000	
Oilseeds						
	Mustard	DRMRIJ 31	-	5.52	60,720	
	Sesame	RT 351	-	3.51	63,180	
Pulses						
	Chickpea	RSG 974		59.0	4,72,000	
	Greengram	IPM 2-03	-	6.16	86,240	
Fodder crop seeds	Oat	JHO 822	-	3.20	16,000	
Total				**108.99**	**2,38,140**	

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			-	3,975	8,350	
Fruits			-	1,334	48,120	
Ornamental plants			-	246	7,100	

Medicinal and Aromatic						
	Aloe vera			1	20	
Fodder crop saplings						
	Napier grass	CO 5	-	31,815	1,60,350	
Forest Species						
	Neem		-	20	1,030	8
	Neem mitha		-	11	450	5
Total			-	**37,402**	**65,070**	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
Bio Fertilizers				
	Waste Decomposer (Lt.)	365 lit.	7,300	
Others				
	Earthworm (Unit)	94	9,400	
	Vermicompost (Kg.)	11,409	1,14,090	
Total		**11868**	**1,30,790**	

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals	0	0	0	0
Cows	0	0	0	0
Buffaloes	0	0	0	0
Calves	0	0	0	0
Poultry	0	0	0	0
Broilers	0	0	0	0
Layers	0	0	0	0
Duals (broiler and layer)	Kadaknath	183	1,22,200	
Japanese Quail	0	0	0	0
Turkey	0	0	0	0
Emu	0	0	0	0
Ducks	0	0	0	0
Eggs	Kadaknath	100	3000	26
Piggery	0	0	0	0
Piglet	0	0	0	0
Fisheries	0	0	0	0
Indian carp	0	0	0	0
Exotic carp	0	0	0	0
Rabbit	-	10	2,000	6
Bater	Desi	2	50	1
Total		**295**	**1,27,250**	

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	92	92	3	0	92
Water	78	78	3	0	0

Plant	0	0	0	0	0
Manure	0	0	0	0	0
Others (pl. specify)	0	0	0	0	0
Total	**170**	**170**	**6**	**0**	**92**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Date of SAC Meeting	Participants
Pali	08-10-2021	बैठक में निम्नलिखित पदाधिकारी एवं सदस्यगण उपस्थित थे :– 1. डॉ. ओ. पी. यादव, निदेशक, काजरी, जोधपुर 2. डॉ. एस. के. सिंह, निदेशक, अटारी, जोधपुर 3. डॉ. ए.के. शुक्ल, अध्यक्ष, आर.आर.एस. काजरी, पाली 4. डॉ. आर. एस. मेहता, प्रधान वैज्ञानिक, आर.आर.एस. काजरी, पाली 5. डॉ. धीरज सिंह, अध्यक्ष, केवीके, पाली 6. डॉ. बी.एस. राठौड़, अध्यक्ष, केवीके, जोधपुर 7. डॉ. मनीष कामत, अध्यक्ष, केवीके, भुज 8. डॉ. सीता राम मीणा, वैज्ञानिक, आर.आर.एस. काजरी, पाली 9. डॉ. एम. बी. नूर, वैज्ञानिक, आर.आर.एस. काजरी, पाली 10. डॉ. कमला चौधरी, वैज्ञानिक, आर.आर.एस. काजरी, पाली 11. डॉ. मनोज पंवार, वरिष्ठ चिकित्सा अधिकारी, पषुपालन विभाग, पाली 12. डॉ. रोटे, वरिष्ठ चिकित्सा अधिकारी, पषुपालन विभाग, पाली 13. श्री विनोद दधीच, जिला विकास प्रबंधक, नाबार्ड, पाली 14. श्री जितेन्द्र भाखर, क्षेत्रीय प्रबंधक, ईफको, पाली 15. श्री कैलाश चंद्र, उप परियोजना निदेषक आत्मा, पाली 16. डॉ. एम. के. चौधरी, विषय विषेषज्ञ, सस्य, के.वी.के. पाली 17. डॉ. ऐष्वर्य डूडी, विषय विषेषज्ञ, गृह विज्ञान, के.वी.के. पाली 18. डॉ. चन्दन कुमार, विषय विषेषज्ञ, उद्यान, के.वी.के. पाली 19. डॉ. ए. एस तेतरवाल, विषय विषेषज्ञ, पौध संरक्षण, के.वी.के. पाली 20. डॉ. पूनम कलश, विषय विषेषज्ञ, केवीके, जोधपुर 21. श्री आर. आर. मेघवाल, केवीके, जोधपुर 22. श्री पी. के. तोमर, तकनिकी अधिकारी, कम्प्यूटर, के.वी.के. पाली 23. श्री भंवर सिंह, कृषक, गिरादरा, पाली 24. श्री काना राम पटेल, कृषक, मानपुरा, पाली 25. श्री सत्यनारायण, कृषक, बामनेरा, पाली 26. श्री मनोहर लाल, कृषक, सिंधियों की ढाणी, पाली 27. श्रीमती कंचन वैष्णव, कृषक, बोमादरा, पाली 28. श्री देदा राम, कृषक, गांव– गाजनगढ़, पाली

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Research Paper	04
Technical bulletins	01
Technical reports	06
Popular Articles	05
Ext. Literature	05
Book	01
Abstract	10
Leaflet/ folders	05
Press release	15

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.)**
6	5	1950	1460	56

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
Total	**0**	**0**

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No. of participants
Total		

Animal health camps organized

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

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

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

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

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Brainstorming session on Strategy for copping scenario of drought and flood in Rajasthan on 3rd Sept. 2021	1	75	62
Annual Progress Review of TSP, 20.10.2021	1	30	24
Annual Progress Review of NFSM, 9-10th Nov. 2021	1	80	63
Total	**3**	**185**	**149**

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

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

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

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

Co-produced Knowledge with Farmer harvested 5.5 tons for Salt Tolerant Wheat Variety: KRL 210

Amar Singh (Dholeria)

Shri Amar Singh, a farmer known for his grassroots innovations, and producing quality seed live in village Dholeria of district Pali-Marwar. He came into contact with ICAR-CAZRI, KVK, Pali during 2014 with a motive to get advisory on soil salinity, and produce quality seed of KRL-210 in farmer's participatory mode and enhancing his livelihood by developing his own seed network (farmer to farmer market). The KVK demonstrated salt tolerant wheat variety KRL-210 has been sown by him since 2014 with remarkable yield (52.5 to 55.5 q/ha) on soils characterized as slightly alkali (pH range of 8.75±0.34). He used to sow the seed of KRL-210 in salt affected soils between first week of November with using seed-cum-fertilizer drill. In order to harvest bold grains of KRL-210 (for seed purpose) with enhanced number of tillers, he calibrated his seed-drill to sow KRL-210 variety with lower seed rate of 90 kg/ha at 15 cm row spacing as against the recommended seed rate of 100 kg/ha with 20 cm row spacing. Shri Amar Singh reduced the nitrogen fertilizer by 10% (130-140 kg N/ha), but maintained 15% higher P (60kg P_2O_5/ha) application. Although he has been applying 4-5 irrigation normally since past 10 years in any of the wheat variety, for example during 2016-17 he irrigated KRL-210 only once after 30 days of seed sowing after experiencing weather pattern. No subsequent irrigations were applied as moisture requirement was fulfilled with intermittent rainfall received with no rainy days (total 220 mm rainfall) during July and August 2019, and optimum moisture remained in the field till harvest of the crop. The crop was harvested on April 12, 2019 and yield data was recorded from a total of 4 m x 4 m area of crop-cutting using 4 random spots. This was threshed manually and bulked together to record the average KRL-210 yield. With variability of 4.66%, the average yield of KRL-210, in past five years (2014-2018), was observed to be 55.5q/ha and maximum yield of 60.00 q/ha during 2018-19. This could be possible owing to creative farmers' management practices, relatively more number of effective tillers in KRL-210 (452-476/m^2) and higher grain weight [(46.2-48.1 g/1000-grains) (during 2018-19)]. Performance of Amar Singh's adaptations with KRL-210 resulted in almost 25-30.0 per cent resources saving with better monitory returns (B:C) with MSP of wheat along with conserving natural resources and enhancing environmental sustainability. Other than routine sell on MSP, he has been selling KRL-210 as seed on an average 55 quintals every year with price Rs. 1650/q/, and could earn Rs. 90750 per ha from KRL-210 seed through farmers' network. It is to highlight that other than using KRL-210 since 2014, Shri Amar Singh has been continuing his informal agronomic experimentations with less seed and water since last about one and half decades to cope-up with climate variability. Such informal agronomic experimentation led by him in association (2014-2019) with KVK, Pali providing salt tolerant wheat KRL-210, and farmer networking support, provide an example of co-production of adaptive knowledge for adapting abiotic stresses and enhancing livelihood resilience.

Table 1 An account of adaptation practices of Shri Amar Singh compared with other farmers' practices

Adaptation components	**Shri Amar Singh's practice**	**Practices followed by other farmers**
Variety	KRL 210	Raj 3065
Seed rate (kg/ha)	90	120
Method of sowing	4 tillage	5tillasge
Spacing (cm)	15	20
Fertilizer application		
Nitrogen (kg N/ha)	130-140	160-175
Phosphorus (kg P_2O_5/ha)	60 kg	50
Irrigation (No.)	4-5	6-7
Yield (q/ha)	55.5	45.3
Cost of cultivation (Rs/ha)*	16400	17400
Gross returns @ Rs 1625/q[1]	90750	55400
Benefit : Cost ratio[1]	5.5	3.1

**Other input costs being considered common while calculating cost of cultivation under both the practices.*

[1] This exclude the income generated from KRL-210 as seed sell for which this variety was adopted by Shri Amar Singh (facts given in the success story)

Table 1 Differences in cost of cultivation and benefits drawn from KRL-210 variety

Adaptation components	Amar Singh's practice	Cost (per ha)	Other farmers	Cost (per ha)
Variety	KRL-210		Raj 3765	
Seed rate	90 kg	2250	2250	2250
Method of sowing	4 tillage	3200	4400	3200
Spacing	18 cm		20-22 cm	
N	135-140 kg (Rs. 1723-1694)	1694	165-195 kg= 2105-2488	2488
P_2O_5	58-60 kg (Rs. 3586-3692)	3692	50 kg= 3000	3000
Weedicide	500 gm (Rs. 2000)	2000	2000	2000
Number of irrigation	1-2 (Rs. 2000)	2000	3-4 (4000)	4000
Harvesting	Rs. 2500	2500	Rs. 2500	2500
Cost of cultivation		12986.0		19238.0

Co-produced Knowledge with Farmer harvested 16.8q for Salt Tolerant mustard Variety: CS 56

Ghisu Ram (Sonai Manji)

Shri Ghisu Ram, a farmer known for his grassroots innovations, and producing quality seed live in village Sonaimanji of district Pali-Marwar. He came into contact with ICAR-CAZRI, KVK, Pali during 2013 with a motive to get advisory on soil salinity, and produce quality seed of CS 56 in farmer's participatory mode and enhancing his livelihood by developing his own seed network (farmer to farmer market). The KVK demonstrated salt tolerant mustard variety CS 56 has been sown by him since 2013 with remarkable yield (14.3 to 16.8 q/ha) on soils characterized as slightly alkali (pH range of 8.5±0.30). He uses to sow the seed of CS 56 in salt affected soils from 15 September to 15 October with using seed-cum-fertilizer drill. In order to harvest bold grains of CS 56 (for seed purpose) with enhanced number of branches, he calibrated his seed-drill to sow CS 56 variety with optimum seed rate of 4 kg/ha at 20 cm row spacing. Shri Ghisu Ram reduced the nitrogen fertilizer by 10% (50 kg N/ha), but maintained 10% higher P (40kg P_2O_5/ha) application. Although he has been applying 2 irrigation normally since past 10 years in any of the mustard variety, for example during 2016-17 he irrigated CS 56 only once after 30 days of seed sowing after experiencing weather pattern. No subsequent irrigations were applied as moisture requirement was fulfilled with intermittent rainfall received with no rainy days (total 240 mm rainfall) during July and August 2019, and optimum moisture remained in the field till harvest of the crop. The crop was harvested on March 21, 2019 and yield data was recorded from a total of 4 m x 4 m area of crop-cutting using 1 random spots. This was threshed manually and bulked together to record the average CS 56 yield. With variability of 5%, the average yield of CS 56, in past five years (2013-2019), was observed to be 16.6q/ha and maximum yield of 19.10 q/ha during 2018-19. This could be possible owing to creative farmers' management practices, relatively more number of effective branches in CS 56. Performance of Ghisu Ram's adaptations with CS 56 resulted in almost 20.1% resources saving with better monitory returns (B:C) with MSP of mustard along with conserving natural resources and enhancing environmental sustainability. Other than routine sell on MSP, he has been selling CS 54 as seed on an average 15.5 quintals every year with price Rs. 3950/q, and could earn Rs. 65400 per ha from CS 54 seed through farmers' network. It is to highlight that other than using CS 56 since 2013, Shri Ghisu Ram has been continuing his informal agronomic experimentations with less seed and water since last about one and half decades to cope-up with climate variability. Such informal agronomic experimentation led by him in association (2013-2019) with KVK, Pali providing salt tolerant mustard CS 56, and farmer networking support, provide an example of co-production of adaptive knowledge for adapting abiotic stresses and enhancing livelihood resilience.

Table 1 An account of adaptation practices of Shri Ghisu Ram compared with other farmers' practices

Adaptation components	**Shri Ghisu Ram's practice**	**Practices followed by other farmers**
Variety	CS 56	T59
Seed rate (kg/ha)	4	5
Method of sowing	5 tillage	6tillasge
Spacing (cm)	20	15
Fertilizer application		
Nitrogen (kg N/ha)	50	40
Phosphorus (kg P_2O_5/ha)	30 kg	15
Irrigation (No.)	2	1
Yield (q/ha)	16.6	12.9
Cost of cultivation (Rs/ha)*	18900	17600
Gross returns @ Rs 3950/q[1]	65400	32200
Benefit : Cost ratio[1]	3.7	1.9

**Other input costs being considered common while calculating cost of cultivation under both the practices.*

[1] This excludes the income generated from CS 56 as seed sell for which this variety was adopted by Shri Ghisu Ram (facts given in the success story)

Table 1 Differences in cost of cultivation and benefits drawn from CS 56 variety

Adaptation components	Ghisu Ram's practice	Cost (per ha)	Other farmers	Cost (per ha)
Variety	CS 56		Pusa Bold	
Seed rate	4 kg	18400	17700	2500
Method of sowing	5 tillage	4000	4200	3000

Spacing	20 cm	-	15 cm	
N	60 kg (Rs. 1500)	1500	40 kg= 2000	2100
P_2O_5	30 kg (Rs. 2800)	2800	20 kg= 3000	3000
Weedicide	500 gm (Rs. 1800)	1800	1800	1800
Number of irrigation	2 (Rs. 2500)	2500	2-3(3000)	3000
Harvesting	Rs. 3000	3000	Rs. 2500	2500
Cost of cultivation				

XIII. STATUS REVOLVING FUNDs

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2018 to March 2019	1265700	1111963	1077707	1299956
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

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:

Name of vegetables	Variety	Area sq (feet)	Production (Kg)	Benefit /unit
Spinach	Allgreen	50	16	320
Okra	Arka Anamika	30	7	650
Pea	GS 10	30	12	480
Coriander	CRC125	40	15	750
Chandalai	Pusa Kiran	20	13	760

Rai	Pusa Sag 1	30	15	600
Kasuri Methi	AKS 2	30	22	880
Radish	Pusa Himani	40	20	600
Chilli		20	7.5	300
Bottle gourd		20	35.5	1050
Tomato		30	17	680
Clusterbean		40	20.50	820
Ridge gourd		20	21	840

ON campus training under NARI project:

S. no.	Title	No. of FW
1	Land preparation and layout of kitchen gardening	20
2	Importance of Nutri-garden in nutritional security	19
3	Nursery management for kitchen gardening	23
4	Post-harvest management and value addition	18

Off campus training under NARI

S. No.	Title	No. of Beneficiaries
1	Land preparation and layout for kitchen gardening	25
2	Improved varieties of fruit and vegetables for nutria garden	21
3	Seed rate and optimum sowing time for different vegetables for kitchen gardening	20
4	Role of organic inputs in nutritional security	24
5	Irrigation management in kitchen gardening	21
6	Intercultural operations in kitchen/ nutria-garden	22
7	Post-harvest management and value addition	20

Method demonstration under NARI project:

S. No.	Title	No. of participants
1	Seed treatment with bio-pesticides like Trichoderma for soilborne disease management in kitchen garden	16
2	Nursery management techniques	19
3	Method and spacing for seedlings planting in nutri- garden	13
4	Preparation of raised beds for sowing of vegetable seed	14
5	Proper harvesting time and method of different vegetables	18
6	Roof-top water harvesting for kitchen gardening	16
7	Farm prepared botanical pesticides and their use in kitchen garden	15
8	Intercultural operations for weed management	11

Note:

Themes of livestock FLDs and OFTs for Annual Progress Report 2021

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.

Photographs of OFTs

1- Promoting saline tolerant variety of wheat under Pali condition

2- Optimum plant population for mustard for getting higher yield.

3- OFT: Pruning management in Lasoda

4- Production of Chilli crop under drip irrigation with silver plastic mulch

5- OFT: Wilt management in fennel spice crop

6- Arid fruit and vegetable processing for food and nutritional security

7- Innovative weeders for drudgery reduction

8- Establishment of Kitchen Garden to ensure the availability of fresh vegetables