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***	
KRISHI VIGYAN KENDRA, CAZRI Campus PALI-MARWAR, PIN: 306 401 (Rajasthan)	02932-256771	02932-256771	cazri_kvkpali@yahoo.co.in

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.res.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

1.4. Year of sanction: 1992

1.5. Staff Position (as on 31st March 2016)

S. 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)*
1.	Programme Coordinator	Dr. Dheeraj Singh	Programme Coordinator	Horticulture	37400 - 67000 GP 9000	50720	19.9.2008	Permanent	Gen.
2.	Subject Matter Specialist	Dr. M. K. Chaudhary	T-7-8 (SMS)	Agronomy	15600 - 39100 GP 6600	36070	30.11.1996	Permanent	Gen.
3.	Subject Matter Specialist	Dr. M. L. Meena	T-7-8 (SMS)	Agril. Extn.	15600 - 39100 GP 6600	25840	28.4.2007	Permanent	ST
4.	Subject Matter Specialist	Dr. Aishwarya Dudi	T-6 (SMS)	Home Science	15600 - 39100 GP 5400	25840	9.8.2007	Permanent	OBC
5.	Subject Matter Specialist	Dr. S.C. Kachhawaha	T-7-8 (SMS)	Animal Science	15600 - 39100 GP 6600	31500	3.5.2008	Permanent	Gen.
6.	Subject Matter Specialist	Sh. L.P. Balai	T-6 (SMS)	Plant Pathology	15600 - 39100 GP 5400	21630	31.10.2013	Probation	SC
7.	Subject Matter Specialist	Sh. Chandan Kumar	T-6 (SMS)	Horticulture	15600 - 39100 GP 5400	21000	22.2.2014	Probation	OBC
8.	Programme Assistant	-	-	-	-	-	-	-	-
9.	Computer Programmer	Sh. P. K. Tomar	T-4 (Comp.)	Computer	9300-34800 GP 4200	16140	5.112008	Permanent	Gen.
10.	Farm Manager	-	-	-	-	-	-	-	-
11.	Assistant	Sh. Mangi Lal Meena	Assistant	Administrative	9300-34800 GP 4600	21670	19.12.2013	Permanent	ST
12.	Stenographer	-	-	-	-	-	-	-	-
13.	Driver	Mahendra Kumar	T-1 (Driver)	-	5200 -20200 GP 2000-	7200	19.01.2015	Probation	SC
14.	Supporting staff	Sh. Tara Ram	Cook	-	5200 -20200 GP 2000	11560	30.11.1996	Permanent	ST
15.	Supporting staff	Sh. Bhola Ram	R/ M	-	5200 - 20200 GP 1800	10730	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

1.7. Infrastructural Development

A) Buildings

S. N.	*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 (6)	-	-					
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	2217 hrs	Need replacement
Jeep	2012	5,54,000		Working condition

C) Equipments & AV aids

Name of the equipment	*Year of purchase*	*Cost (Rs.)*	*Present status*
Computer with printer	1998	85754	Working condition
Overhead Projector	1998	31900	Not in working condition
LCD with Screen	2006	77500	Working condition
Laptop with multimedia	2006	52000	Working condition*
Multi-function photo copier	2008	74500	Working condition
Multi-function Fax machine	2009	15000	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

1.8. A). Details of SAC meeting* conducted in the year 2014-15

Date	*Name and Designation of Participants*	*Salient Recommendations*	*Action taken*
March 15, 2014	1. **Dr. R.K. Bhatt,** Director, CAZRI, Jodhpur 2. **Dr. P.P. Rohila,** Zonal Project Director, Zone-VI, Jodhpur 3. **Dr. A.K. Shukla**, Head, RRS CAZRI, Pali 4. **Dr. B.L. Jangid**, Principal Scientist, RRS CAZRI, Pali 5. **Dr. Dheeraj Singh,** Programme Coordinator, KVK, Pali 6. **Dr. Dipak Gupta**, Scientist, RRS CAZRI, Pali 7. **Dr. M.K. Choudhary**, SMS (Agron.), KVK, Pali 8. **Dr. M.L. Meena**, SMS (Ag. Ext.), KVK, Pali 9. **Dr. Aishwarya Dudi**, SMS (Home Science), KVK, Pali 10. **Sh. L.P. Balai**, SMS (Plant Protection), KVK, Pali 11. **Sh. Chandan Kumar**, SMS	1. Dr. R.K. Bhatt suggested holding the SAC meeting as early as possible to review the work during year and approve the Action Plan of next year for better implementation. He also suggested for making KVK presence more visible in the district and in ICAR by regular reporting. He also suggested conducting more vocational trainings and increasing the revenue generation through seed production programmes. 2. Dr. R.K. Bhatt stressed on expansion of azolla unit and planning for year round fodder crops for livestock of the district. He further stressed on getting new oat varieties from CAZRI, Jodhpur which can be booked in advance for coming season. He also stressed on expansion on sev and gola varieties of ber for small and marginal farmers. 3. Dr. P.P. Rohila suggested the adoption of kitchen gardening at farmers houses and in peri urban residences. He also suggested conduction of at least two OFTs per SMS and indicated the reduced off-campus trainings in Home Science. 4. Dr. A.K. Shukla, Head, RRS CAZRI, Pali suggested for a combine programme by KVK and RRS for expansion of horticulture crops in the area. He further stressed the need of availability of saplings of vegetables and fruit plants for the farmers of area. 5. Dr. Manoj Panwar, Deptt. of Animal Husbandry stressed on need for a big	Actions has been taken on all the recommendations

	(Horticulture), KVK, Pali 12. **Sh. P. K. Tomar**, Programme Assistant (Computer), KVK, Pali **13. Dr. K.C. Mundra**, Dy. Manager, Govt. Dairy, Pali **14. Sh. H.S. Bundel**, DDM, NABARD, Pali 15. **Sh. Shankar Lal**, PD, ATMA, Pali 16. **Sh. Ramavtar Choudhary**, Dy. Director, Horticulture, Pali 17. **Dr. Manoj Panwar**, Animal Husbandry Department, Pali 18. **Sh. Deda Ram Patel**, Farmer, village Gajangarh, Pali 19. **Sh. Bhanvar Singh**, Farmer, village Giradara, Pali 20. **Sh. Mala Ram,** Farmer, village Rampura, Pali 21. **Sh. Mangi Lal**, Farmer, village Artia, Pali	programme on small ruminant which should be taken up by CAZRI alongwith KVK, Pali for the animal rearers of this area. 6. Sh. H.S. Bundel, DDM, NABARD, Pali suggested for rural development programmes like seed village programme, vermin-composting and nursery management for which financial assistance can be provided by NABARD. He also requested CAZRI to provide scientific help for Vadi programme implemented by NABARD in Sumerpur and Bali division. 7. Dr. K.C. Mundra, Dy. Manager, Pali Dairy suggested that some programmes should be taken for yearlong availability of fodder for the farmers of Pali district. 8. There was a general suggestion for stress on vegetable demonstrations, henna harvester and more FLDs on sorghum and pearlmillet. For sorghum dual purpose variety may be used in the different programmes. There were also suggestions for establishment of a photo gallery displaying the main activities of KVK, different crop varieties, etc. 9. Farmer Deda Ram Patel raised the issue of increase in the number of male bull in villages and requested the solution for this problem. 10. Farmer Raja Ram requested KVK to solve the issue of marketing of ber fruits in market.	

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT (2015-16)

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, specially in the irrigated area.
2.	Semi-arid transitional plain	The semi-arid transitional plain lies roughly between eastern margins of western desert and western foothills of Aravalli. It is formed of alluvium deposits laid by Luni, Gaggar, Saraswati, Chouthan and Sutlej river system. However, from western arid region the 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 (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 slopping plain with sandy surface, moderately eroded, associated with: Shallow, well drained, fine loamy soil, slightly eroded, slightly saline	196300
3.	Typic Camborthids	Moderately shallow, well drained, fine loamy soils on nearly	140200

	Typic Camborthids (Map Unit 129)	level plain with loamy surface, slightly eroded, associated with: Moderately shallow, well drained, fine soils, moderately eroded, moderately saline.	
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

S. No	*Crop*	*Area (ha)*	*Production (Qtl)*	*Productivity (Qtl /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: Office of Deputy Director, Agriculture (Extension), District Pali

2.5. Weather data

Month	*Rainfall (mm)*	*Temperature ^{0} C*		*Relative Humidity (%)*	
		Maximum	*Minimum*	*I*	*II*
Apr.-15	1.5	39.5	22.4	36.5	20.0
May-15	60.1	41.0	26.1	48.3	22.7
June-15	1.5	42.1	29.7	57.0	31.1
July-15	167.3	36.3	27.6	75.6	57.5
Aug.-15	205.5	33.6	25.3	84.9	61.9
Sept.-15	122.8	33.3	23.7	85.0	64.3
Oct.-15	-	36.7	19.6	65.0	42.1
Nov.-15	-	33.1	13.8	62.7	40.2
Dec.-15	-	27.4	6.8	67.0	22.8
Jan.-16	0.0	24.5	5.8	75.6	32.0
Feb.-16	-	30.7	11.6	53.5	20.5
March-16	0.0	33.3	15.5	47.5	19.8

Source: Agromet Section, CAZRI, RRS, Pali

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	1360904	1848107*	1.358**
Goats	605755	29000	0.57
Pigs	13429	N.A.	N.A.
Rabbits	90	N.A.	N.A.
Poultry			
Hens	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 (2015-16)

S. No	*Taluk*	*Name of block*	*Name of village*	*Major crops & enterprises*	*Major problems identified*	*Identified thrust area*
1	Rohat	Rohat	• Rampura • Mukanpura	• Pearl millet, • Green gram, • Mothbean, • Sorghum, • Sesame	• Weed management in rainfed crops • low yield of major crops • Fodder scarcity	Dry land farming
2	Pali	Pali	• Bagawas, • Nimbli kheda, • Dingai	• Gram, • Sorghum, • Sesame, • Green gram, • Pearl millet, • Wheat	• Saline/sodic land/ irrigation water • Poor fertility status of landlow yield of major crops	Dry land farming and Conserve moisture agriculture
3	Marwar Jn.	Marwar Jn.	• Dudod, • Jogdawas,	• Wheat, • Barley, • Mustard, • Green gram, • Clusterbean, • Sorghum, • Sesame	• Saline/sodic land/ irrigation water • Poor fertility status of landlow yield of major crops	Integrated crop management
4	Sojat	Sojat	• Naya gaon, • Nai dhani	• Wheat, • Mustard, • Barley, • Cumin, • Green gram, • Clusterbean, • Sorghum, • Sesame	• Saline/sodic land/ irrigation water • Poor fertility status of land • low yield of major crops	Integrated crop management
5	Raipur	Raipur	• Kushalpura • Haziwas	• Wheat, • Mustard,	• Saline/sodic land/ irrigation water	Integrated crop

				• Barley, • Cumin, • Green gram, • Clusterbean, • Sorghum, • Sesame	• Poor fertility status of land • low yield of major crops	management
6	Jaitarn	Jaitarn	• Nimaz	• Wheat, • Mustard, • Barley, • Cumin, • Clusterbean, • Sorghum, • Sesame • Ber • Aonla	• Saline/sodic land/ irrigation water • Poor fertility status of land • low yield of major crops	Integrated crop management

2.8 Priority/thrust areas

Thrust area
Management of limited, saline/ sodic water and soil
Dry land farming and integrated watershed management practices
Arid and semi arid horticultural practices
Pasture development
Livestock production and its management
Upliftment of rural communities through various vocations especially for socio-economically poor people

Crop/Enterprise	***Thrust area***
Wheat	Integrated nutrient management
Mustard	Integrated nutrient management
Cumin	Integrated pest management
Dhaman Grass	High yielding varieties
Moong	Integrated nutrient management
Til	Integrated nutrient management

3. TECHNICAL ACHIEVEMENTS

3.A Details of target and achievements of mandatory activities by KVK during 2015-16

OFT (Technology Assessment and Refinement)				*FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)*			
1				*2*			
Number of OFTs		*Number of Farmers*		*Number of FLDs*		*Number of Farmers*	
Targets	*Achievement*	*Targets*	*Achievement*	*Targets*	*Achievement*	*Targets*	*Achievement*
8	9	24	27	270	517	270	517

					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	75	105	2000	2593	350	505	10000	12697
Rural youth	5	8	150	192	12	25	120	322
Extension functionaries	1	2	25	55	15	31	300	640

Seed Production (Qtl.)		*Planting material (Nos.)*	
5		*6*	
Target	*Achievement*	*Target*	*Achievement*
6	13.59	5000	25200

3.B Abstract of interventions undertaken

S. No	*Thrust area*	*Crop/ Enterprise*	*Identified Problem*	*Interventions*					
				Title of OFT if any	*Title of FLD if any*	*Title of Training if any*	*Title of training for extension personnel if any*	*Ext. activities*	*Supply of seeds, planting materials etc.*
1.	Management of limited, saline/ sodic water and soil	1. Wheat 2. Mustard 3. Cumin 4. Barley	Low yield due saline/sodic soil and water	1. Production maximization of wheat under saline/ sodic soil and irrigation water 2. Production of maximum mustard under rainfed condition 3. Production of cumin under IPM 4. Production maximization of barley under saline/ sodic soil and irrigation water	1. Production of wheat under saline and sodic soil 2. Production of mustard good quality of oil 3. Production of cumin good quality of seed 4. Production of barley under saline and sodic soil	-	-	-	1. Seeds of RAJ 4083 2. Urvashi/ BS2 /BS3 3. GC 4 4. RD 2035/ 2592/2715
2.	Dry land farming	Fodder Sorghum	Low yield	Improving quality and production of fodder Sorghum	-	-	-	-	Seeds of sorghum (Pratap 1430)
3.	Dry land farming	Moong	Low yield	Improving productivity of moong seed	-	-	-	-	G 4/RMG 492
4.	Dry land farming	Cluster bean	Low yield	Improving productivity of cluster bean seed	-	-	-	-	RGC 1002
5.	Dry land farming	Til	Low yield	Improving productivity of Til seed and oils	-	-	-	-	RT 346
6.	Arid and semi arid horticultural practices	Ber	Low yield	Yield improvement of ber orchards through vermi composting and organic manuring with water conservation techniques	-	-	-	-	FYM, Vermi-compost

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies assessed* in respect of crops/enterprises

Thematic areas	*Cereals*	*Oilseeds*	*Pulses*	*Commercial Crops*	*Vege-tables*	*Fruits*	*Flower*	*Plantation crops*	*Tuber Crops*	*TOTAL*
Varietal Evaluation	12	2	2	2	4	1	0	0	0	23
TOTAL	12	2	2	2	4	1	0	0	0	23

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

A.2 Abstract of the number of technologies **refined*** in respect of crops/enterprises

Thematic areas	*Cereals*	*Oilseeds*	*Pulses*	*Commercial Crops*	*Vege-tables*	*Fruits*	*Flower*	*Plantation crops*	*Tuber Crops*	*TOTAL*
Varietal Evaluation	3	3	3	3	3	1	0	0	0	16
TOTAL	3	3	3	3	3	1	0	0	0	16

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

B. Details of each On Farm Trial

A. Technology Assessment

Trial 1: Wheat

1.	**Title**	**:**	Production maximization of wheat under saline/ sodic soil and irrigation water
2.	**Problem diagnose/defined**	**:**	Low yield due saline/sodic soil and water
3.	**Details of technologies selected for assessment/ refinement**	**:**	High yielding variety for saline/sodic conditions (RAJ 4037)
4.	**Source of technology**	**:**	RAU, Bikaner
5.	**Production system thematic area**	**:**	Irrigated, Varietal evaluation
6.	**Performance of the Technology with performance indicators**	**:**	Higher yield than farmers' practice
7.	**Final recommendation for micro level situation**	**:**	High production
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	Good quality seed and high production

Trial 2: Mustard

1.	**Title**	**:**	Optimum plant population for mustard for getting higher yield./ Low productivity of mustard
2.	**Problem diagnose/defined**	**:**	Low yield due to low rainfall
3.	**Details of technologies selected for assessment/ refinement**	**:**	High plant population
4.	**Source of technology**	**:**	NRC Mustard, Bharatpur
5.	**Production system thematic area**	**:**	Irrigated
6.	**Performance of the Technology with performance indicators**	**:**	High yield than farmers' practice
7.	**Final recommendation for micro level situation**	**:**	High production
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	High production and good quality of mustard oil

Trial 3: Cumin

1.	**Title**	**:**	Production technologies of cumin in arid area of Pali district
2.	**Problem diagnose/defined**	**:**	Low yield due to higher plant population
3.	**Details of technologies selected for assessment/ refinement**	**:**	High yielding variety for rainfed condition (RZ 223)
4.	**Source of technology**	**:**	RAU, Bikaner
5.	**Production system thematic area**	**:**	Integrated pest management
6.	**Performance of the Technology with performance indicators**	**:**	Higher yield than farmers' practice
7.	**Final recommendation for micro level situation**	**:**	High production
8.	**Constraints identified and feedback for research**	**:**	Yellowish at the time of flowering
9.	**Process of farmers participation and their reaction**	**:**	High production and good quality of seed

Trial 4: Sorghum

1.	**Title**	**:**	Improving quality and production of fodder Sorghum
2.	**Problem diagnose/defined**	**:**	Low yield
3.	**Details of technologies selected for assessment/ refinement**	**:**	High yielding variety (CSV 15)
4.	**Source of technology**	**:**	NRC for Sorghum, Hyderabad
5.	**Production system thematic area**	**:**	Rainfed, Varietal evaluation

6.	**Performance of the Technology with performance indicators**	**:**	Higher fodder yield than farmers' practice
7.	**Final recommendation for micro level situation**	**:**	In progress
8.	**Constraints identified and feedback for research**	**:**	In progress
9.	**Process of farmers participation and their reaction**	**:**	In progress

Trial 5: Low milk yield in bovine

	Title	**:**	Low milk yield in bovine
2.	**Problem diagnose/defined**	**:**	Low nutrition status, Poor economic condition for supplement feeding, Lack of knowledge of supplementary feeding
3.	**Details of technologies selected for assessment/ refinement**	**:**	1. Multi nutrient feed blocks 2. Oral calcium
4.	**Source of technology**	**:**	CAZRI, Jodhpur
5.	**Production system thematic area**	**:**	Milk production evaluation
6.	**Performance of the Technology with performance indicators**	**:**	Increased milk production and minimize the calving interval
7.	**Final recommendation for micro level situation**	**:**	Necessary supplementary feeding for lactating animals
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	Increased the digestibility of roughage and rumen microbes, low priced source of protein

Trial 6: Assessment of different types of sickles for drudgery reduction

1.	**Title**	**:**	Assessment of different types of sickles for drudgery reduction
2.	**Problem diagnose/defined**	**:**	High cost and low harvesting capacity
3.	**Details of technologies selected for assessment/ refinement**	**:**	Improved serrated sickles
4.	**Source of technology**	**:**	CIAE, Bhopal
5.	**Production system thematic area**	**:**	Drudgery reduction
6.	**Performance of the Technology with performance indicators**	**:**	Time and labour saving
7.	**Final recommendation for micro level situation**	**:**	In progress
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	Well appreciated due to light weight and self sharpening quality

B. Results of On Farm Trials

Crop/ enterprise	*Farming situation*	*Problem Diagnosed*	*Title of OFT*	*No. of trials**	*Technology Assessed*	*Parameters of assessment*	*Data on the parameter*	*Results of assessment*	*Feedback from the farmer*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
Wheat	Irrigated	Low yield due saline/sodic soil and water	Production maximization of wheat under saline/ sodic soil and irrigation water	3	High yielding variety for saline/sodic conditions (RAJ 4037)	Grain yield and straw	-	Conti.	Conti.
Cumin	Irrigated	Low yield due to saline/sodic soil and water	Low productivity of cumin	3	High yielding variety for saline/sodic conditions (RZ 223)	Seed yield	-	Conti.	Conti.
Mustard	Irrigated	Low yield due to high plant population	Low productivity of mustard	3	Spacing row to row and plant to plant	Seed yield	-	Conti.	Conti.
Sorghum	Unirrigated	Low yield due to saline/sodic soil and water	Low productivity of fodder sorghum	3	High yielding variety for saline/sodic conditions (CSV 15)	Fodder yield	-	Conti.	Conti.
Animal Science	-	Low nutrition status, Poor economic condition for supplement feeding, Lack of knowledge of supplementary feeding	Low milk yield in bovine	3	Multi nutrient feed blocks, Oral calcium	Milk yield	-	Increased milk production	Increased the milk production and animal calving at right time
Cumin	Irrigated	Wilt	Reduction in cumin area in the district due to wilt	3	CAZRI	Cumin wilt disease, bio-agent and Bavistin	-	Cont.	Cont.
Tomato	Irrigated	fruit borer	Low yield of tomato due to fruit borer	3	IIVR, Varanasi	Fruit borer damage and IPM through management	-	Cont.	Cont.

Tomato	Irrigated	Low yield and high insect, pest and disease due to high weed infestation and improper irrigation system	Product maximization of tomato under drip irrigation with mulch	5	• Drip irrigation technology • Mulch technology	Fruit yield	-	Cont.	Cont.
Pomegranate	Irrigated	Poor fruit size and quality with low yield	Effect of pruning and irrigation schedule in pomegranate	6	• Drip irrigation technology • Pruning intensity and time	Fruit yield	-	Cont.	Cont.

** No. of farmers*

Technology Assessed			****Production per unit***			***Net Return (Profit) in Rs. / unit***			***BC Ratio***		
11			***12***			***13***			***14***		
T_1	T_2	T_3	T_1	T_2	T_3	T_1	T_2	T_3	T_1	T_2	T_3
Local var.	Raj 3077	Raj 4037	2085	2733	2990	14600	18167	22800	2.1	2.9	3.1
Local var.	RZ 19	RZ 223	575	715	975	28900	45200	67000	1.7	2.1	2.8
Farmer practice	Recommended practice	Row spacing at 45 cm.	1020	1225	1350	10100	18200	21600	1.8	2.2	2.8
Local var.	Merta jowar	CSV 15	4900	5800	6900	6250	9450	12450	2.1	2.7	3.0
Farmer practice	MNFB + Galog bolus	MNFB + Galog bolus + Oral calcium	1100 litre per lactation	1450 litre per lactation	2080 litre per lactation	8000	11500	24800	0.55	0.85	1.9
T_1 (farmer practice)	Seed treatment with Trichoderma @ 6 gm/kg seed	Seed treatment with Trichoderma @ 4 gm/ kg seed + use of 60 kg FYM enriched with Trichoderma @ 2.5 kg/ha for soil treatment.	510	593	618	46720	58540	61860	1.33	1.60	1.67
T_1 (farmer practice)	Marigold line, Dimethoate 1ml /lit at flowering time and Acephate 1 gram/lit at 45 fruiting time	Marigold line, Dimethoate 1/2ml/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	218	255	293	52650	73405	91405	1.06	1.35	1.65

****Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

Note: T_1= Farmers' practice, T_2 = Recommended, T_3 = Refined
**Field crops – kg/ha, * for horticultural crops = kg/plant, * milk and meat – litres or kg/animal*
Raj 4037 variety was adopted by 10 farmers as it was found to be best for problematic soil and water conditions.
RZ 223 variety was adopted by 20 farmers. It was found to best for problematic soil and water conditions.
Circular catchment's for rainwater harvesting +pond soil+ vermicompost application practice was also adopted by the 20 farmers. The main reason for adoption was run of water during rainy season and lack of soil moisture during rest of season. Secondly pond soil increases water holding capacity and provides some nutrients also. Vermicompost attributes to increase in soil fertility as well as water retention capacity.

B. Technology Refinement

Trial 1: Ber

1.	**Title**	**:**	Yield improvement of ber orchards through organic manuring with water conservation techniques
2.	**Problem diagnose/defined**	**:**	Low yield
3.	**Details of technologies selected for assessment/ refinement**	**:**	Rainwater harvesting (Circular catchment) + nutrient management through FYM (50 kg)+ Vermi-compost (10 kg) per plant
4.	**Source of technology**	**:**	CAZRI, Jodhpur
5.	**Production system thematic area**	**:**	Rainfed, INM
6.	**Performance of the Technology with performance indicators**	**:**	Higher fruit yield than control
7.	**Final recommendation for micro level situation**	**:**	Good quality fruit
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	Adopted this variety

Results of On Farm Trials

Crop/ enterprise	*Farming situation*	*Problem Diagnosed*	*Title of OFT*	*No. of trials**	*Technology refined*	*Parameters*	*Data on the parameter*	*Results of refinement*	*Feedback from the farmer*	*Justifi cation for refinement*
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
Ber	Rainfed	Low yield	Yield improvement of ber orchards through organic manuring with water conservation techniques	01	Rainwater harvesting (Circular catchment) + nutrient management through FYM (50 kg)+ Vermi-compost (10 kg) per plant	Fruit yield	-	Conti.	Conti.	Conti.

** No. of farmers*

Technology Assessed / Refined			**Production per unit*			*Net Return (Profit) in Rs. / unit*			*BC Ratio*		
11			*12*			*13*			*14*		
T_1	T_2	T_3	T_1	T_2	T_3	T_1	T_2	T_3	T_1	T_2	T_3
No water harvesting, No manuring	Circular catchment for rainwater harvesting +pond soil + FYM	Circular catchment for rainwater harvesting +pond soil+ vermicompost	25.2	36.3	42.0	133.5	301.0	362.0	2.1	3.7	3.8

**Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.*

Note: T_1= Farmers' practice, T_2 = Recommended, T_3 = Refined
**Field crops – kg/ha, * for horticultural crops = kg/plant, * milk and meat – litres or kg/animal*

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2015-16 and recommended for large scale adoption in the district

List of technologies demonstrated during previous year and popularized during 2015-16

S. No	*Crop/ Enterprise*	*Thematic Area**	*Technology demonstrated*	*Details of popularization methods suggested to the Extension system*	*Horizontal spread of technology*		
					No. of villages	*No. of farmers*	*Area in ha*
1.	**Til**	Integrated crop management	• Improved variety (RT 346) • 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.	7	89	173
2.	**Moong**	Integrated crop management	• Improved variety (GM 4, IPM 02-3, RMG 492) • For root rot treated seed with Tricoderma 4 gm/kg. seed • Seed treatment with Carbendism 2 gm /kg seed.	• Result demonstration • Extension literature • Field day, Kisan Goshthi,	9	121	101
3.	**Cluster bean**	Varietal performance	• Improved variety (RGC 1003/RGM 112) • Sowing at 30 X 10 cm with a proper depth. • For root rot treated seed with Tricoderma 10 gm gm/kg. seed.	• Extension literature • Extension activities, Field visit etc.	10	127	106
4.	**Dhaman Grass**	Varietal evaluation	CAZRI-76 Line sowing First two years – no grazing	• Result demonstration	2	5	5
5.	**Vegetables**	Varietal evaluation	Improved Varieties Line sowing Drip irrigation system Recommended dose of NPK and plant protection measures	• Result demonstration • Extension activities	10	50	25

6.	**Sorghum**		• Improved variety (Pratap 1430) • Seed treated with sulphur 4 gm /kg seed. • Sowing at 45 X 12-15 cm, with a proper depth of sowing 4-5 cm.	• Result demonstration • Extension literature	10	76	102
7.	**Mustard**	Integrated crop management	• Improved variety (GM 4/Urvarshi) • 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' scientists interaction etc.	6	62	90
8.	**Chickpea**	Varietal evaluation	• Improved variety (Pratap Chana 1/RSG 888) • 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.	12	92	44
9.	**Wheat**	Varietal evaluation	• Improved **Wheat** var. Raj 4037 • 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,	5	67	30
10.	**Barley**	Varietal evaluation	• Improved **Barley** var. RD 2052, RD 2503, RD 2552, RD 2668 • Seed treatment with Chloropyriphos @ 4 ml /kg • Line sowing at 22.5 cm for timely sowing & at 25 cm for late sown barley.	• Extension literature • Extension activities viz. Kisan Goshthi, Field visit etc.	7	72	38
11.	**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.	7	44	51
12.	**Moth**	Varietal evaluation	• Improved variety (CZM 2) • For root rot treated seed with Tricoderma 4 gm/kg. seed • Seed treatment with Carbendism 2 gm /kg seed.	• Result demonstration • Extension literature • Field day, Kisan Goshthi,	6	201	86

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

*b. Details of FLDs implemented during 2015-16 (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*	**Variety**	*Area (ha)*		*No. of farmers/ demonstration*		
						Proposed	*Actual*	*SC/ST*	*Others*	*Total*
1.	Sesame	Varietal evaluation	Seed, Biofertilizer	Kharif 2015	RT 346	15	10	8	22	30
2.	Green gram	Varietal evaluation	Seed, Biofertilizer	Kharif 2015	GM 4	15	10	15	25	40
3.	Sorghum	Varietal evaluation	Seed, organic manure	Kharif 2015	CSV 15/23/27	10	10	18	38	56
4.	Cluster bean	Varietal evaluation	Seed, organic manure	Kharif 2015	RGC 1003/1066	10	5	14	22	36
5.	Moth	Varietal evaluation	Seed, Organic manure	Kharif 2015	RMo 435	15	10	14	18	32
6.	Bajra	Varietal evaluation	Seed, Organic manure	Kharif 2015	MPMH 17	0	10	10	22	32
7.	Napier grass	Varietal evaluation	Line sowing , Drip irrigation	Kharif 2015	NHB 1	10	5	4	16	20
8.	Mustard	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	NRCDR 2/ PM 27	20	20	27	48	75
9.	Wheat	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	Raj 4083/4037/ KRL 213	15	15	20	37	57
10.	Barley	Varietal evaluation	Protected cultivation, Line sowing, Drip irrigation	Rabi 15-16*	RD 2794	5	5	4	7	11
11.	Oat	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	JHO 822	5	5	7	16	23
12.	Cumin	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	GC 4	15	15	12	28	40
13.	Chickpea	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	RSG 895/973	5	5	6	14	20
14.	Okra	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	AA	1	1	5	20	25
15.	Kachri	Varietal evaluation	Line sowing , Drip irrigation	Rabi 15-16*	AHK 119	1	1	8	22	30

** Rabi 15-16 result awaited*

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ ha			Yield of local Check Qtl./ha	Increase in yield (%)
						H	L	A		
1	2	3	4	5	6	7	8	9	10	11
1.	Sesame	Seed, Biofertilizer, line sowing	RT 346	10	10	8.8	3.6	6.4	5.2	23
2.	Sesame	Seed, Biofertilizer, line sowing		10		5.8	2.5	3.5	2.9	20.6
3.	Green gram	Seed, Biofertilizer, line sowing	GM 4	20	10	15.9	5.0	8.7	6.9	26
4.	Green gram	Seed, Biofertilizer, line sowing		17		9.3	4.0	5.8	4.8	20.8
5.	Sorghum	Seed, Biofertilizer, line sowing	CSV 15	24	15	99.6	30.5	80.5	65.5	22.9
6.	Sorghum	Seed, Biofertilizer, line sowing	CSV 23	15		102	36	84	66	26.6
7.	Sorghum	Seed, Biofertilizer, line sowing	CSV 27	17		104	35	85.5	68	25.7
8.	Cluster bean	Seed, Biofertilizer, line sowing	RGC 1017	18	10	10.2	4.3	9.4	7.7	22
9.	Cluster bean	Seed, Biofertilizer, line sowing		18		8.2	3.3	5.2	4.2	23.8
10.	Bajra	Seed, Biofertilizer, line sowing	MPMH 17	32	10	21.5	5	15.6	12.5	24.8
11.	Moth	Seed, Biofertilizer, line sowing	RMO 435	18	10	11.2	2.4	6.4	5.3	20.7
12.	Moth	Seed, Biofertilizer, line sowing		14		7.2	2.2	4.4	3.6	22.7
13.	Mustard	Seed, Line sowing, PP measures	NRCDR 2	22	15	19	10	13.8	11.5	20.50
14.	Mustard	Seed, Line sowing, PP measures	RH 19	10		17.8	9.5	13.3	11.2	18.75
15.	Wheat	Seed, Biofertilizer	RAJ 4083	36	15	46.6	24.7	36.9	30.3	21.78
16.	Barley	Seed, Biofertilizer	RD 2715	22	15	47.2	26	34.9	28	24.64
17.	Barley	Seed, Biofertilizer	RD 2035	10		43	25.4	33.3	27.5	21.09
18.	Oat	Seed, line sowing	Kent	25	5	410	205	328.5	180	82.50
19.	Cumin	Seed, Line sowing , Drip irrigation	GC 4	30	15	6.4	3.5	3.7	2.9	27.59
20.	Chickpea	Line sowing , Biofertilizer, PP measures	RSG 895	25	5	24	11	16.9	13.8	22.46
21.	Napier grass	Line sowing , Drip irrigation, Seedlings	NHB 1	50	10	215	120	166.5	133	25.19
22.	Okra	Protected cultivation	AA	20	1	140	97	115	89	29.21
23.	Kachri	Seed, Line sowing, PP measures	AHK 119	30	1	95	75	87	69	26.09
24.	Methi	Seed, Line sowing, PP measures	RMt 305	24	10	16	10	13.5	10.6	27.36

* No yield measure due to long dry spell & drought condition during the reporting period.

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		***Average Gross Return (Rs./ha)***		***Average Net Return (Profit) (Rs./ha)***		***Benefit-Cost Ratio (Gross Return / Gross Cost)***	
Demonstration	***Local Check***	***Demonstration***	***Local Check***	***Demonstration***	***Local Check***		
14	***15***	***16***	***17***	***18***	***19***	***20***	***21***
16200	16200	42500	26100	26300	9900	2.62	1.61
20500	15250	55500	24600	35000	9350	2.71	1.63
15640	14500	43500	23500	27860	9000	2.79	1.62
16700	13500	46300	24600	29600	11100	2.78	1.82
15500	16300	52200	29200	36700	12900	3.37	1.79
16800	15200	49500	31050	32700	15850	2.95	2.00
16800	16200	62300	27500	45500	11300	3.70	1.70
13100	11700	44750	24500	31650	12800	3.64	2.09
11300	10900	41900	22300	30600	14000	3.70	2.04
20200	16800	56250	31380	36050	14500	2.59	1.86
8940	6780	28100	13530	19160	6750	3.14	1.99
8750	6650	27400	15300	18650	8650	3.13	2.30
20100	19100	65400	31300	45300	12200	3.20	1.63
19250	17300	67300	36700	48050	19400	3.50	2.11
15200	13900	49400	35080	34200	21180	3.25	1.52
14500	15600	43150	33500	28650	21900	2.97	1.88
13600	16050	44500	35600	30900	24550	3.27	1.09
11200	12300	33500	27500	22300	15200	2.99	1.23
31250	31000	98670	65200	67420	34200	3.16	2.10
12640	11300	39400	29500	26760	18200	3.12	1.72
19150	18300	81200	52250	62250	33950	4.24	1.61
32500	30450	95680	63750	63180	33300	2.94	2.00
9900	9700	37250	23700	16350	12000	3.76	2.55
17800	15250	51500	33560	33700	18310	2.89	2.20

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Crop	*Season*	*Component*	*Farming situation*	*Average yield (q/ha)*	*Local check (q/ha)*	*Percentage increase in productivity over local check*
Sesame	Kharif 2015	RT 346	Rainfed	6.4	5.2	23
Sesame	Kharif 2015	RT 346	Rainfed	3.5	2.9	20.6
Green gram	Kharif 2015	GM 4	Rainfed	8.7	6.9	26
Green gram	Kharif 2015	GM 4	Rainfed	5.8	4.8	20.8
Sorghum	Kharif 2015	CSV 15	Rainfed	80.5	65.5	22.9
Sorghum	Kharif 2015	CSV 23	Rainfed	84	66	26.6
Sorghum	Kharif 2015	CSV 27	Rainfed	85.5	68	25.7
Cluster bean	Kharif 2015	RGC 1017	Rainfed	9.4	7.7	22
Cluster bean	Kharif 2015	RGC 1017	Rainfed	5.2	4.2	23.8
Bajra	Kharif 2015	MPMS 17	Rainfed	15.6	12.5	24.8
Moth	Kharif 2015	RMO 435	Rainfed	6.4	5.3	20.7
Moth	Kharif 2015	RMO 435	Rainfed	4.4	3.6	22.7
Mustard	Rabi 2015-16	NRCDR 2	Irrigated	13.8	11.5	20.00
Mustard	Rabi 2015-16	RH 19	Irrigated	13.3	11.2	18.75
Wheat	Rabi 2015-16	RAJ 4083	Irrigated	36.9	30.3	21.78
Barley	Rabi 2015-16	RD 2715	Irrigated	34.9	28	24.64
Barley	Rabi 2015-16	RD 2035	Irrigated	33.3	27.5	21.09
Oat	Rabi 2015-16	Kent	Irrigated	328.5	180	82.50
Cumin	Rabi 2015-16	GC 4	Irrigated	3.7	2.9	27.59
Chickpea	Rabi 2015-16	RSG 895	Irrigated	16.9	13.8	22.46
Napier grass	Kharif 2014	NHB 1	Irrigated	166.5	133	25.19
Okra	Rabi 2015-16	AA	Irrigated	115	89	29.21
Kachri	Rabi 2015-16	AHK 119	Irrigated	87	69	26.09
Methi	Rabi 2015-16	RMt 305	Irrigated	13.5	10.6	27.36

* No yield due to drought conditions.

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, gram, moong, guar, etc and biofertilizer in time

Farmers' reactions on specific technologies

S. No	*Feed Back*
1	• Early vigorous growth and branching of Mustard var. NRCDR 2 appreciated by the farmers along with Bold size quality grain & pod containing higher oil content 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 4083 Higher production of grain and good quality of seed in arid region
4	• RD 2715 Higher yield in rainfed condition, disease resistant variety
5	• Moong var. GM 4 – short duration, early maturity, suitable for low rainfed conditions
6	• Guar var. RGC 1017 – Higher number of pods and early maturity, suitable for arid region

Extension and Training activities under FLD

Sl No.	*Activity*	*No. of activities organised*	*Number of participants*	*Remarks*
1	Field days	17	480	
2	Farmers Training	20	375	
3	Media coverage	06	-	
4	Publications	05	-	

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

**** Field efficiency, labour saving etc.***

(ii) Livestock Enterprises

Enterprise	***Breed***	***No. of farmers***	***No. of animals, poultry birds etc.***	***Performance parameters / indicators***	**** Data on parameter in relation to technology demonstrated***		***% change in the parameter***
					Demon.	***Local check***	
Multi Nutrient Feed Block	Cattle and buffalo	05	45	Balance feeding of animals	-	-	20% milk increase
Azolla	Cattle and buffalo	25	75	Increasing milk production and infertility check	-	-	15-20% milk production increase

**** Milk production, meat production, egg production, reduction in disease incidence etc.***

(iii) Other Enterprises

Enterprise	*Variety/ breed/ Species/ others*	*No. of farmers*	*No. of Units*	*Performance parameters / indicators*	*Data on parameter in relation to technology demonstrated*		*% change in the parameter*
					Demon.	*Local check*	
Vermi compost	*Assenia foeatida*	25	25	Production of vermi-compost	-	-	-
Azolla	Improved	300	300	Production of green fodder	-	-	-
Kitchen garden	High yielding varieties	30	30	Self- sufficient for home consumption	-	-	-
Mushroom	oyster	30	30	Self- sufficient for home consumption	-	-	-
Farm implements	Serrated sickle, rotovator, farm cutter, mechanized spray machine	298	12	Skill development, labour and fuel saving	-	-	-

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Higher productivity
2	Low insect pest

Farmers' reactions on specific technologies

S. No	Feed Back
1	Low cost input and higher gain
2	Saving time

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	5	150	
2	Farmers Training	8	120	
3	Media coverage	5	-	
4	Training for extension functionaries	1	42	

3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

A) 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	1	5	5	10	4	5	9	9	10	19
Resource Conservation Technologies	1	20	0	20	0	0	0	20	0	20
Integrated Farming	2	30	2	32	20	0	20	50	2	52
Water management	2	22	10	32	10	8	18	32	18	50
Seed production	2	25	0	25	12	0	12	37	0	37
Fodder production	1	7	10	17	2	5	7	9	15	24
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	25	5	30	2	0	2	27	5	32
Nursery raising	1	15	5	20	3	2	5	18	7	25
Grading and standardization	1	25	5	30	0	0	0	25	5	30
b) Fruits										
Rejuvenation of old orchards	1	25	0	25	0	0	0	25	0	25
Plant propagation techniques	1	10	10	20	12	0	12	22	10	32
c) Ornamental Plants										
III Soil Health and Fertility Management										
Management of Problematic soils	1	20	0	20	0	0	0	20	0	20
IV Livestock Production and Management										
Dairy Management	1	20	20	40	2	0	2	22	20	42
Disease Management	1	20	2	22	6	3	9	26	5	31

Feed management	1	20	2	22	0	6	6	20	8	28
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	20	20	0	3	3	0	23	23
Designing and development for high nutrient efficiency diet	1	0	25	25	0	17	17	0	42	42
Minimization of nutrient loss in processing	1	0	16	16	0	15	15	0	31	31
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques	1	0	20	20	0	13	13	0	33	33
Value addition	1	0	25	25	0	6	6	0	31	31
Income generation activities for empowerment of rural Women	1	0	20	20	0	16	16	0	36	36
Location specific drudgery reduction technologies	1	0	0	0	0	25	25	0	25	25
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	1	25	2	27	7	3	10	32	5	37
VII Plant Protection										
Integrated Pest Management	1	15	5	20	2	1	3	17	6	23
Integrated Disease Management	1	20	5	25	2	0	2	22	5	27
Bio-control of pests and diseases	1	16	13	29	6	0	6	22	13	35
Production of bio control agents and bio	1	16	20	36	2	0	2	18	20	38

pesticides										
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Leadership development	2	27	10	37	2	1	3	29	11	40
Group dynamics	1	23	5	28	5	4	9	28	9	37
Formation and Management of SHGs	1	20	0	20	0	0	0	20	0	20
Mobilization of social capital	1	20	5	25	6	0	6	26	5	31
Entrepreneurial development of farmers/youths	1	16	6	22	10	0	10	26	6	32
XI Agro-forestry										
TOTAL	36	487	273	760	115	133	248	602	406	1008
(B) RURAL YOUTH										
Mushroom Production	1	15	13	28	4	1	5	19	14	33
Seed production	1	27	2	29	4	0	4	31	2	33
Vermi-culture	1	30	0	30	0	0	0	30	0	30
Value addition	1	30	3	33	3	7	10	33	10	43
(C) Extension Personnel										
Productivity enhancement in field crops	1	36	13	49	4	1	5	40	14	54
Capacity building for ICT application	1	30	10	40	10	0	10	40	10	50

B) 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	35	7	42	8	0	8	43	7	50
Integrated Farming	4	70	0	70	17	0	17	87	0	87

Water management	2	30	8	38	5	3	8	35	11	46
Seed production	2	30	7	37	3	0	3	33	7	40
Fodder production	3	40	6	46	14	3	17	54	9	63
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	20	5	25	5	3	8	25	8	33
Nursery raising	2	33	3	36	6	0	6	39	3	42
Grading and standardization	2	34	4	38	6	0	6	40	4	44
Protective cultivation (Green Houses, Shade Net etc.)	2	30	10	40	7	0	7	37	10	47
b) Fruits										
Layout and Management of Orchards	1	30	3	33	2	7	9	32	10	42
Cultivation of Fruit	1	20	7	27	6	0	6	26	7	33
Micro irrigation systems of orchards	1	20	10	30	0	0	0	20	10	30
III Soil Health and Fertility Management										
Soil fertility management	2	30	4	34	8	1	9	38	5	43
Soil and Water Conservation	1	20	10	30	7	2	9	27	12	39
Soil and Water Testing	1	20	4	24	3	0	3	23	4	27
IV Livestock Production and Management										
Dairy Management	1	20	7	27	6	2	8	26	9	35
Disease Management	3	33	17	50	20	6	26	53	23	76
Feed management	2	25	13	38	16	4	20	41	17	58
Production of quality animal products	2	33	0	33	0	0	0	33	0	33
V Home Science/Women empowerment										

Household food security by kitchen gardening and nutrition gardening	1	0	33	33	0	2	2	0	35	35
Design and development of low/minimum cost diet	1	0	37	37	0	2	2	0	39	39
Designing and development for high nutrient efficiency diet	2	0	37	37	0	16	16	0	53	53
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs	1	0	33	33	0	2	2	0	35	35
Storage loss minimization techniques	2	0	30	30	0	15	15	0	45	45
Value addition	2	0	37	37	0	15	15	0	52	52
Income generation activities for empowerment of rural Women	2	0	35	35	0	10	10	0	45	45
Location specific drudgery reduction technologies	2	0	30	30	0	16	16	0	46	46
Rural Crafts	1	0	20	20	0	20	20	0	40	40
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	2	25	4	29	6	2	8	31	6	37
VII Plant Protection										
Integrated Pest Management	1	20	3	23	2	3	5	22	6	28
Integrated Disease Management	2	40	0	40	0	0	0	40	0	40
Bio-control of pests and diseases	1	30	4	34	6	1	7	36	5	41

Production of bio control agents and bio pesticides	2	36	2	38	10	0	10	46	2	48
VIII Fisheries										
IX Production of Inputs at site										
Bio-agents production	2	20	13	33	10	0	10	30	13	43
Organic manures production	2	0	20	20	13	17	30	13	37	50
X Capacity Building and Group Dynamics										
Leadership development	3	44	8	52	7	3	10	51	11	62
Group dynamics	2	45	0	45	0	0	0	45	0	45
Formation and Management of SHGs	2	40	2	42	2	7	9	42	9	51
Mobilization of social capital	2	30	6	36	12	0	12	42	6	48
Entrepreneurial development of farmers/youths	2	30	7	37	13	3	16	43	10	53
(B) RURAL YOUTH										
Mushroom Production	2	35	0	35	0	10	10	35	10	45
Production of organic inputs	1	30	0	30	0	0	0	30	0	30
Vermi-culture	1	20	30	50	0	0	0	20	30	50
Repair and maintenance of farm machinery and implements	1	12	17	29	10	0	10	22	17	39
Nursery Management of Horticulture crops	1	10	0	10	10	13	23	20	13	33
(C) Extension Personnel										
Productivity enhancement in field crops	1	33	4	37	10	0	10	43	4	47
Protected cultivation technology	1	20	30	50	0	0	0	20	30	50

C) Consolidated table (ON and 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	3	40	12	52	12	5	17	52	17	69
Resource Conservation Technologies	1	20	0	20	0	0	0	20	0	20
Integrated Farming	6	100	2	102	37	0	37	137	2	139
Water management	4	52	18	70	15	11	26	67	29	96
Seed production	4	55	7	62	15	0	15	70	7	77
Fodder production	4	47	16	63	16	8	24	63	24	87
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	2	45	10	55	7	3	10	52	13	65
Nursery raising	3	48	8	56	9	2	11	57	10	67
Grading and standardization	3	59	9	68	6	0	6	65	9	74
Protective cultivation (Green Houses, Shade Net etc.)	2	30	10	40	7	0	7	37	10	47
b) Fruits										
Layout and Management of Orchards	1	30	3	33	2	7	9	32	10	42
Cultivation of Fruit	1	20	7	27	6	0	6	26	7	33
Rejuvenation of old orchards	1	25	0	25	0	0	0	25	0	25
Micro irrigation systems of orchards	1	20	10	30	0	0	0	20	10	30
Plant propagation techniques	1	10	10	20	12	0	12	22	10	32
III Soil Health and Fertility Management										
Soil fertility management	2	30	4	34	8	1	9	38	5	43

Soil and Water Conservation	1	20	10	30	7	2	9	27	12	39
Management of Problematic soils	1	20	0	20	0	0	0	20	0	20
Soil and Water Testing	1	20	4	24	3	0	3	23	4	27
IV Livestock Production and Management										
Dairy Management	2	40	27	67	8	2	10	48	29	77
Disease Management	4	53	19	72	26	9	35	79	28	107
Feed management	3	45	15	60	16	10	26	61	25	86
Production of quality animal products	2	33	0	33	0	0	0	33	0	33
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	53	53	0	5	5	0	58	58
Design and development of low/minimum cost diet	1	0	37	37	0	2	2	0	39	39
Designing and development for high nutrient efficiency diet	3	0	62	62	0	33	33	0	95	95
Minimization of nutrient loss in processing	1	0	16	16	0	15	15	0	31	31
Gender mainstreaming through SHGs	1	0	33	33	0	2	2	0	35	35
Storage loss minimization techniques	3	0	50	50	0	28	28	0	78	78
Value addition	3	0	62	62	0	21	21	0	83	83
Income generation activities for empowerment of rural Women	3	0	55	55	0	26	26	0	81	81
Location specific drudgery	3	0	30	30	0	41	41	0	71	71

reduction technologies										
Rural Crafts	1	0	20	20	0	20	20	0	40	40
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	3	50	6	56	13	5	18	63	11	74
VII Plant Protection										
Integrated Pest Management	2	35	8	43	4	4	8	39	12	51
Integrated Disease Management	3	60	5	65	2	0	2	62	5	67
Bio-control of pests and diseases	2	46	17	63	12	1	13	58	18	76
Production of bio control agents and bio pesticides	3	52	22	74	12	0	12	64	22	86
VIII Fisheries										
IX Production of Inputs at site										
Bio-agents production	2	20	13	33	10	0	10	30	13	43
Organic manures production	2	0	20	20	13	17	30	13	37	50
X Capacity Building and Group Dynamics										
Leadership development	5	71	18	89	9	4	13	80	22	102
Group dynamics	3	68	5	73	5	4	9	73	9	82
Formation and Management of SHGs	3	60	2	62	2	7	9	62	9	71
Mobilization of social capital	3	50	11	61	18	0	18	68	11	79
Entrepreneurial development of farmers/youths	3	46	13	59	23	3	26	69	16	85
XI Agro-forestry										
(B) RURAL YOUTH										
Mushroom Production	3	50	13	63	4	11	15	54	24	78
Seed production	1	27	2	29	4	0	4	31	2	33

Production of organic inputs	1	30	0	30	0	0	0	30	0	30
Vermi-culture	2	50	30	80	0	0	0	50	30	80
Repair and maintenance of farm machinery and implements	1	12	17	29	10	0	10	22	17	39
Nursery Management of Horticulture crops	1	10	0	10	10	13	23	20	13	33
Value addition	1	30	3	33	3	7	10	33	10	43
(C) Extension Personnel										
Productivity enhancement in field crops	2	69	17	86	14	1	15	83	18	101
Protected cultivation technology	1	20	30	50	0	0	0	20	30	50
Capacity building for ICT application	1	30	10	40	10	0	10	40	10	50

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Detailed training programmes

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
10-11.06.2015	RY	Management of problematic soils	Agronomy	Soil management	2	On	16	2	18	6	0	6	22	2	24
08-09.09.2015	PF	Crop production technology under conserved moisture	Agronomy	Rainfed cultivation	2	On	14	2	16	5	0	5	19	2	21
28-29.10.2015	PF	Water management technology	Agronomy	Water use efficiency	2	On	18	3	21	7	0	7	25	3	28
30-31.10.2015	PF	Seed multiplication of crops	Agronomy	Seed production	2	On	19	4	23	2	2	4	21	6	27
04-05.11.2015	PF	Cultivation practices for quality fodder production	Agronomy	Fodder production	2	On	21	1	22	2	1	3	23	2	25
06-07.11.2015	RY	Improved package of practices for rabi crops	Agronomy	Crop management	2	On	18	10	28	2	0	2	20	10	30
19-20.11.2015	RY	Fertility management for crop production	Agronomy	Fertility management	2	On	22	3	25	0	0	0	22	3	25
05-06.12.2015	RY	Weed management for crops crop production	Agronomy	Weed management	2	On	18	5	23	0	0	0	18	5	23
08.01.2015	RY	Efficient management of irrigation water	Agronomy	Irrigation management	1	Off	18	8	26	5	4	9	22	12	34
12.01.2015	RY	Weed management in rabi crops	Agronomy	Weed management	1	Off	20	0	20	0	0	0	20	0	20
28.01.2015	RY	Improved package	Agronomy	Corp	1	Off	18	5	23	0	0	0	18	5	23

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
		practices for rabi crops		management											
04.02.2015	PF	Improved farm implements	Agronomy	Farm implements	1	Off	21	0	21	0	0	0	21	0	21
07.02.2015	PF	Water management technology	Agronomy	Water use efficiency	1	Off	17	0	17	3	3	6	20	3	23
10.02.2015	PF	Fodder production technology	Agronomy	Fodder production	1	Off	17	0	17	4	0	4	21	0	21
17.02.2015	PF	Package practices for summer fodder	Agronomy	Fodder production	1	Off	20	0	20	0	0	0	20	0	20
20.06.2015	PF	Fertility management through composting	Agronomy	Fertility management	1	Off	13	7	20	6	2	8	19	9	28
26.06.2015	PF	Package practices for kharif crops	Agronomy	Crop management	1	Off	20	0	20	0	0	0	20	0	20
30.06.2015	PF	Improved package practices for kharif oilseeds	Agronomy	Oilseed production	1	Off	17	5	22	2	0	2	19	5	24
03.07.2015	PF	Seed multiplication of kharif crops	Agronomy	Seed production	1	Off	34	4	38	4	3	7	38	7	45
04.07.2015	PF	Technology of organic farming	Agronomy	Organic farming	1	Off	22	0	22	8	0	8	30	0	30
06.07.2015	PF	Improved farm implements	Agronomy	Farm implements	1	Off	22	0	22	0	0	0	22	0	22
08.07.2015	PF	Composting for soil fertility	Agronomy	Organic faming	1	Off	22	3	25	3	1	4	25	4	29
16.07.2015	PF	Improved package practices for fodder crops	Agronomy	Fodder production	1	Off	18	0	18	0	0	0	18	0	18
19.9.2015	PF	Seed multiplication of rabi crops	Agronomy	Seed production	1	Off	20	0	20	0	0	0	20	0	20

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
28.09.2015	PF	Crop production technology under conserved moisture	Agronomy	Crop management	1	Off	12	12	24	2	2	4	14	14	28
19-21.06.2015	RY	Entrepreneurship development of in agriculture	Agricultural Extension	Employment generation	3	On	21	3	24	2	0	2	23	2	25
13-15-07.2015	RY	Income generation for rural youth	Agricultural Extension	Income generation	3	On	20	0	20	2	0	2	22	0	22
09-10.08.2015	PF	Adoption of improved farm implements	Agricultural Extension	Farm implements	2	On	17	3	20	0	0	0	17	3	20
23-25.09.2015	PF	Sources of information used by the farmers	Agricultural Extension	ICT	3	On	21	0	21	2	0	2	23	0	23
16-17.11.2015	FW	Mass media and modern information technology	Agricultural Extension	ICT	2	On	18	2	20	0	2	2	18	4	22
21-23.12.2015	FW	Awareness about Govt. benefit programme	Agricultural Extension	Awareness	3	On	21	2	23	0	0	0	21	2	23
19-20.01.2016	PF	Leadership development in rural area	Agricultural Extension	Leadership development	2	On	22	2	24	0	1	1	22	3	25
02-05.02.2016	RY	Motor rewinding techniques	Agricultural Extension	Skill development	4	On	19	1	20	1	1	2	20	2	22
05.05.2015	RY	Entrepreneurship development of in agriculture	Agricultural Extension	Income generation	1	Off	24	6	30	2	2	4	26	8	34
06.05.2015	RY	Awareness about Govt. benefit programme	Agricultural Extension	Awareness	1	Off	25	2	27	0	0	0	25	2	27
15.06.2015	RY	Leadership development in	Agricultural Extension	Leadership development	1	Off	31	2	33	2	3	5	33	4	37

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
		rural area													
21.07.2015	PF	Adoption of improved farm implements	Agricultural Extension	Skill development	1	Off	25	0	25	2	0	2	27	0	27
27.07.2015	RY	Motor rewinding techniques	Agricultural Extension	Skill development	1	Off	28	0	28	2	1	3	30	1	31
02.08.2015	FW	Modern information technology	Agricultural Extension	ICT	1	Off	32	2	34	0	0	0	34	0	34
17.09.2015	PF	Adoption practices of grain storage	Agricultural Extension	Adoption	1	Off	28	0	28	2	0	2	30	0	30
21.10.2015	PF	Adoption of improved farm implements	Agricultural Extension	Adoption	1	Off	33	2	35	2	2	4	35	4	39
26.10.2015	RY	Sources of information used by the farmers	Agricultural Extension	ICT	1	Off	35	0	35	2	2	4	37	2	39
22.11.2015	PF	Mass media and modern information technology	Agricultural Extension	ICT	1	Off	33	0	33	0	0	0	33	0	33
12.12.2015	FW	Awareness about Govt. benefit programme	Agricultural Extension	Awareness	1	Off	27	3	30	0	0	0	27	3	30
2.2.2016	FW	Processing and value addition	Agricultural Extension	Income generation	1	Off	24	0	24	6	0	6	30	0	30
17/10/2015	FW	Bandhej technique	Home Science	Income generation	1	Off	0	0	0	0	35	35	0	35	35
19/10/2015	FW	Stitching of baby garments	Home Science	Income generation	1	Off	0	10	10	0	10	10	0	20	20
26/11/2015	FW	Stitching of baby garments	Home Science	Income generation	1	Off	0	20	20	0	5	5	0	25	25
28/11/2015	FW	Making useful product items form	Home Science	Income generation	1	Off	0	20	20	0	10	10	0	30	30

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
		waste materials													
7/12/2015	FW	Health and nutrition for women	Home Science	Nutrition	1	Off	0	0	0	0	25	25	0	25	25
9/12/2015	FW	Reasons, symptoms and procurement from anaemia	Home Science	Nutrition	1	Off	0	10	10	0	10	10	0	20	20
8/2/2016	FW	Making of different toys	Home Science	Income generation	1	Off	0	15	15	0	5	5	0	20	20
23/2/2016	FW	Stitching of children wear	Home Science	Income generation	1	Off	0	20	20	0	6	6	0	26	26
25/2/2016	FW	Stitching of children wear	Home Science	Income generation	1	Off	0	25	25	0	0	0	0	25	25
27/2/2016	FW	Preservation techniques	Home Science	PHT	1	Off	0	15	15	0	15	15	0	30	30
14-17/7/2015	FW	Papad making	Home Science	Income generation	4	On	0	20	20	0	0	0	0	20	20
24-27/8/2015	FW	Bandhej technique	Home Science	Skill development	4	On	0	0	0	0	20	20	0	20	20
28/9/2015-1/10/2015	FW	Tailoring techniques	Home Science	Income generation	4	On	0	20	20	0	0	0	0	20	20
28-31/10/2015	FW	Stitching of baby garments	Home Science	Income generation	4	On	0	0	0	0	20	20	0	20	20
14-17/12/2015	FW	Drudgery reduction	Home Science	Skill development	4	On	0	0	0	0	20	20	0	20	20
5.7.2015	PF	Plant protection measures in kharif crops	Plant protection	Plant Protection	1	Off	20	0	20	0	0	0	20	0	20
19.7.2015	PF	Plant protection measures in kharif crops	Plant protection	Plant Protection	1	Off	25	0	25	0	0	0	25	0	25
21.12.2015	PF	Plant protection measures in rabi crops	Plant protection	Plant Protection	1	Off	10	6	16	5	6	11	15	12	27

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
4-5.4.2015	PF	Seed treatment of summer vegetables	Plant protection	IPM	2	On	20	0	20	0	0	0	20	0	20
8-9.11.2015	PF	Plant protection measures in rabi crops	Plant protection	Plant Protection	2	On	20	0	20	0	0	0	20	0	20
29-31.1.2016	FW	Mushroom cultivation	Plant protection	Plant Protection	2	On	0	25	25	0	5	5	0	30	30
23-24/04/14	PF	Orchard management of Ber and Phalsa crops	Horticulture	Orchard management	2	On	12	0	12	0	0	0	12	0	12
27-28/06/14	PF	Techniques for propagation of arid fruits plants	Horticulture	Pomology	2	On	11	0	11	0	0	0	11	0	11
10-11/09/14	PF	Fruit and Vegetable cultivation under Micro Irrigation System	Horticulture	Irrigation management	2	On	10	4	14	0	0	0	10	4	14
20-21/11/14	PF	Improved Orchard management	Horticulture	Orchard management	2	On	10	3	13	0	0	0	10	3	13
26-27/02/15	PF	Improved Vegetable cultivation Technology	Horticulture	Vegetable cultivation	2	On	16	0	16	0	0	0	16	0	16
10/04/14	PF	Improved cultivation of phalsa and pomegranate	Horticulture	Fruit production	1	Off	15	5	20	0	0	0	15	5	20
21/05/14	PF	Improved cultivation of flower crops	Horticulture	Flower production	1	Off	12	2	14	2	1	3	14	3	17
19/06/14	PF	Techniques & tips of cucurbits	Horticulture	Vegetable production	1	Off	30	0	30	0	0	0	30	0	30

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
		production													
10/07/14	PF	Techniques for training & pruning of ber plants	Horticulture	Ber production	1	Off	10	3	13	0	0	0	10	3	13
14/07/14	PF	Techniques for In-situ budding of ber plants	Horticulture	Propagation	1	Off	11	0	11	0	0	0	11	0	11
13/08/14	PF	Nursery management of *rabi* season vegetables	Horticulture	Nursery management	1	Off	24	0	24	0	0	0	24	0	24
15/09/14	PF	Organic farming	Horticulture	Organic farming	1	Off	20	1	21	1	2	3	22	4	26
25/09/14	PF	Papaya and citrus fruit management	Horticulture	Papaya cultivation	1	Off	24	0	24	0	0	0	24	0	24
19/11/14	PF	Importance of kitchen gardening	Horticulture	Kitchen gardening	1	Off	18	0	18	0	0	0	18	0	18
25/11/14	PF	Vegetable nursery management	Horticulture	Nursery management	1	Off	20	0	20	0	0	0	20	0	20
16/12/14	PF	Vegetable marketing	Horticulture	Vegetable production	1	Off	35	0	35	0	2	2	35	2	37
2/01/15	PF	*Rabi* season onion cultivation technology	Horticulture	Onion production	1	Off	18	0	18	0	0	0	18	0	18
10/02/15	PF	Management of ber orchard	Horticulture	Ber production	1	Off	14	0	14	0	0	0	14	0	14
26/02/15	PF	Management of cumin cultivation	Horticulture	Seed spices cultivation	1	Off	16	0	16	0	0	0	16	0	16
17/03/15	PF	Fruit orchard management	Horticulture	Orchard management	1	Off	13	2	15	0	0	0	13	2	15
28-29/07/2015	PF	Management of milch animals	Veterinary science	Dairy management	2	On	12	3	15	2	1	3	14	4	18

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
13-15/10/2015	PF	Production and Management practices of dairy animals	Veterinary science	Dairy management	3	On	09	1	10	3	2	5	12	3	15
17-09-2015	PF	Preventive measure of endo- and ecto parasitic infestation	Veterinary science	Disease management	1	On	7	5	12	4	2	6	11	7	18
6-10-2015	PF	Disease management in dairy animals	Veterinary science	Disease management	1	On	12	4	16	3	1	4	15	5	20
6-9/07/2015	PF	First aid in animals	Veterinary science	Disease management	4	On	20	0	20	2	1	3	22	1	23
13-15-07-2015	PF	Prevention and control of common disease of dairy animal	Veterinary science	Disease management	3	On	5	12	17	0	2	2	5	14	19
9-11-02-2016	PF	Balance feeding of pregnant animals	Veterinary science	Feed management	3	On	16	7	23	0	0	0	16	7	23
1-3-03-2016	PF	Backyard poultry	Veterinary science	Poultry management	3	On	23	0	23	0	0	0	23	0	23
2/11/2015	PF	Balanced feeding in milch animals	Veterinary science	Dairy Management	1	Off	12	17	29	6	8	14	18	25	43
1/12/2015	PF	Care and management of calves	Veterinary science	Dairy Management	1	Off	17	8	25	7	12	19	24	20	44
9-11/12/2015	PF	Clean milk production	Veterinary science	Dairy Management	3	Off	28	0	28	20	0	20	48	0	48

Date	*Clientele*	*Title of the training programme*	*Discipline*	*Thematic area*	*Duration in days*	*Venue (Off / On Campus)*	*Number of other participants*			*Number of SC/ST*			*Total number of participants*		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
27/11/2015	PF	Management of production disease	Veterinary science	Dairy Management	1	Off	9	2	11	8	4	12	17	6	23
4-7/1/2016	PF	Care and management of dairy animals	Veterinary science	Dairy Management	4	Off	27	8	35	9	12	21	36	20	56
18-19/11/2015	PF	FMD and its preventive measures	Veterinary science	Disease Management	2	Off	15	5	20	6	8	14	21	13	34
26/11/2015	PF	Control measures of endo-parasitic infestation	Veterinary science	Disease Management	1	Off	6	0	6	12	0	12	18	0	18
17/11/2015	PF	Parasitic control in dairy animals	Veterinary science	Disease Management	1	Off	8	0	8	15	0	15	23	0	23
5/2/2016	PF	Control of mastitis in animals	Veterinary science	Disease Management	1	Off	7	2	9	8	0	8	15	2	17
15/2/2016	PF	Control measures of Contagious diseases in dairy animals	Veterinary science	Disease Management	1	Off	5	9	14	3	0	3	8	9	17
24-25/2/2016	PF	Control measures of endo-parasitic infestations	Veterinary science	Disease Management	2	Off	14	6	20	18	4	22	32	10	42

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
Leadership development	15-19.7.2015	Youth leadership and personality development programme	Leadership and personality development	5	30	2	32	5	5	6	0
Organic farming	25-29.8.2015	Organic farming for sustainable agriculture	Income generation	5	20	0	20	12	12	12	0
Seed multiplication	8-10.9.2015	Seed multiplication technology	Income generation	3	20	5	25	6	6	6	0
Fruit and vegetable	17-20.10.2015	Processing and value addition of fruits and vegetables	Value addition	4	0	20	20	13	13	13	0
Fruits	9-11.11.2015	Income generation of farm women	Income generation	3	0	20	20	5	5	5	0
Nursery	2-3.12.2015	Nursery management of fruit and vegetables	Income generation	2	20	5	25	8	8	8	0
Farm implements	2-3.2.2016	Utilization of improved farm implements	Farm machinery	2	20	5	25	6	6	6	0
Mushroom cultivation	3-5.1.2016	Mushroom cultivation in low cost input	Income generation	3	5	20	25	4	4	4	0
Total				**27**	**115**	**77**	**192**	59	59	60	0

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No	Title	Thematic area	Duration (days)	Client (PF/ RY/ EF)	No. of courses	No. of Participants									Spon-soring Agency
						Others			SC/ST			Total			
						Male	Female	Total	Male	Female	Total	Male	Female	Total	
1.	Improved cultivation practices of oilseeds	Crop production	3	PF	1	20	0	20	20	0	20	40	0	40	DOA
2.	Improved cultivation technology in vegetable crops	Vegetable crops	2	RY	1	20	0	20	0	0	0	20	0	20	DOA
3.	Ber production technology in arid region	Fruits	2	PF	1	20	0	20	0	0	0	20	0	20	NHM
4.	Line sowing technique of cumin	Spices	2	PF	1	10	5	15	10	5	15	20	10	30	ATMA
5.	Cultivation practices of medicinal plants	Medicinal and aromatic plants	2	PF	1	25	0	25	0	0	0	25	0	25	NABARD
6.	Organic farming	Soil Health and Fertility Management	2	EF	1	20	10	30	0	0	0	20	10	30	DOA
7.	Production technology of kharif crops	Seed production	2	PF	1	30	0	30	0	0	0	30	0	30	DOA
8.	Organic farming	Production of organic inputs	2	PF	1	30	0	30	0	0	0	30	0	30	DOA
9.	Nursery raising of different type of plants	Planting material production	2	RY	1	20	3	23	2	0	2	22	3	25	DOH
10.	Improved agricultural implements	Repair and maintenance of farm machinery and implements	2	RY	1	20	10	30	2	0	2	22	10	32	ATMA
11.	Post harvest technology of fruits and vegetables	Value addition	2	FW	1	20	2	22	3	0	3	23	2	25	NABARD
12.	Income generation through stitching techniques	Tailoring and stitching	2	FW	1	0	20	20	0	0	0	0	20	20	ICDC
	Total				**12**	**235**	**50**	**285**	**37**	**5**	**42**	**272**	**55**	**327**	

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Participants											
		Farmers (Others)			SC/ST (Farmers)			Extension Officials			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	230	40	270	95	13	108	4	2	6	329	55	384
Kisan Mela	1	1340	120	1460	110	45	155	20	2	22	1470	167	1637
Kisan Ghosthi	23	240	45	285	35	15	50	2	2	4	327	62	389
Exhibition	1	1340	120	1460	110	45	155	20	2	22	1470	167	1637
Film Show	28	210	90	300	115	25	140	2	0	2	327	50	377
Method Demonstrations	55	235	44	279	30	5	35	3	1	4	268	50	318
Farmers Seminar	1	170	15	185	20	5	25	3	2	5	193	22	215
Workshop	0	0	0	0	0	0	0	0	0	0	0	0	0
Group meetings	30	0	0	354	0	0	118	0	0	28	398	101	499
Lectures delivered as resource persons	115	0	0	470	0	0	170	0	0	185	625	200	825
Newspaper coverage	30	0	0	0	0	0	0	0	0	0	0	0	0
Radio talks	10	0	0	0	0	0	0	0	0	0	0	0	0
TV talks	4	0	0	0	0	0	0	0	0	0	0	0	0
Popular articles	8	0	0	0	0	0	0	0	0	0	0	0	0
Extension Literature	10	980	270	1250	160	80	240	30	20	50	1170	370	1540
Advisory Services	24	213	24	237	45	32	77	5	3	8	263	59	322
Scientific visit to farmers field	40	280	40	320	25	15	40	0	0	0	305	55	360
Farmers visit to KVK	45	2360	245	2605	311	120	431	5	2	7	2676	29	2705
Diagnostic visits	25	112	16	128	30	13	43	0	0	0	142	29	171
Exposure visits	10	80	10	90	55	6	61	0	0	0	135	16	151
Ex-trainees Sammelan	4	70	5	80	25	5	30	0	0	0	95	10	105
Soil health Camp	10	50	20	70	15	5	20	0	0	0	65	25	90
Animal Health Camp	5	70	40	110	45	35	80	7	5	12	122	80	202
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil health day	1	145	77	222	55	35	90	8	2	10	208	114	322

Farm Science Club Conveners meet	5	80	15	95	35	10	8	4	2	7	119	27	146
Self Help Group Conveners meetings	4	75	30	105	30	15	45	9	1	10	115	46	161
Mahila Mandals Conveners meetings	0			0			0			0	0	0	0
Celebration of important days ()	4	75	16	91	17	10	27	13	10	23	105	36	141

Details of method demonstration for technology popularization

Thematic area	**Demonstration**	**No. of participants**
Agroforestry MPTS	22	350
Azolla cultivation	50	350
Balance feeding	15	50
Ber budding	35	250
Bio-agents	15	78
Drip irrigation	65	285
Farm implements	10	176
Fodder production	45	250
Fruit production technology	12	270
Gum extraction technique	25	72
Integrated Pest Management	15	72
Livestock-deworming	10	200
Protected cultivation of horticulture crops	12	206
Quality increase of roughage by urea treatment	06	87
Seed treatment	15	350
Vegetables production technology	20	360
Vermi composting	42	132
Preservation and value addition	20	105

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
2	Gosthies	1	30	
	Lectures organised	4	170	
	Exhibition	2	120	
	Film show	4	190	
	Fair	0	0	
	Farm Visit	10	50	
	Diagnostic Practicals	2	25	
	Distribution of Literature (No.)	5	253	
	Distribution of Seed (q)	15	60	
	Distribution of Planting materials (No.)	3000	150	
	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		715	

Kisan Mobile Advisory

No. of Farmers registered: 200

Details of SMSs

Text Messages			Voice Messages		
Content Category	**No. of Messages**	**No. of Farmers**	**Content Category**	**No. of Messages**	**No. of Farmers**
Crop Production	0	0	**Crop Production**	25	200
Crop Protection	0	0	**Crop Protection**	22	200
Livestock & Fisheries Advisory	0	0	**Livestock & Fisheries Advisory**		
Weather Advisory	0	0	**Weather Advisory**	10	200
Market Information	0	0	**Market Information**	15	200
Events Information	0	0	**Events Information**	20	200
Input availability	0	0	**Input availability**	25	200
Others (specify)	0	0	**Others (specify)**	0	0
Total	0	0	**Total**	117	1200

3.5 Production and supply of Technological products

SEED MATERIALS

Type	*Crop*	*Variety*	*Quantity (qtls)*	*Value (Rs.)*	*Provided to no. of farmers*
Oilseeds	Til	RT 346	4.95	56635	169
	Mustard	NRCDR 2	3.00	8000	0
	Linseed	NEELAM	0.50	1000	10
Cereals	Wheat	RAJ 4083	1.19	2142	10
	Barley	RD 2715	0.15	0	0
Spices	Ajvain	AA 1	0.20	0	0
Fodder	Oat	JHO 822	11.59	46360	75
Others	Vermi compost	*Assenia foetida*	65.5 no.	24563	65
	Vermi compost khad	-	211.47	105735	120
	Drumstick pod	CO1	3.72	2776	-
	Natural grass	-	-	71000	-

SUMMARY

Sl. No.	*Major group/class*	*Quantity (qtls)*	*Value (Rs.)*	*Provided to No. of Farmers*
1	Oilseeds	8.45	65635	179
2	Cereals	1.54	2142	10
3	Spices	0.20	0	0
4	Fodder	11.59	81020	150
5	Worms	65.5 Units	24563	65
6	Vermi compost khad	211.47	1052735	120
7	Drumstick pod	3.72	2776	0
8	Natural grass	-	71000	-
TOTAL		**236.97 + 65.5 Units**	**1299871**	**524**

PLANTING MATERIALS

Type	**Crop**	**Variety**	**Number**	**Value (Rs.)**	**Provided to no. of farmers**
Vegetable					
	Tomato	Pusa Rubi	3000	6000	150
	Cauliflower	Pusa Savni	315	650	50
	Chilli	Pusa Jwala	1600	3200	40
Fruits					
	Ber	Gola	368	14750	50
	Gonda	Improved	314	9420	60

	Pomegranate	Sindura	123	3690	35
	Lime	Kagji	302	6040	45
	Fig	Puna Fig	210	10500	80
	Papaya	Taiwan	275	8250	80
	Guava	L 49	100	7000	15
	Banana	G 9	43	2150	17
	Custard apple	Improved	4	200	2
Ornamental					
	Agave	Improved	15	300	10
	Rose	Ganganagari	481	9620	20
	Ashok	Improved	28	840	5
	Champa	-	49	740	7
Fodder					
	Napier grass	NHB 1	6932 No.	34660	75
Medicinal					
	Aloevera	CO 1	13	240	10
	Drumstick	CO 1	161	3220	52

SUMMARY

Sl. No.	*Major group/class*	*Quantity (Nos.)*	*Value (Rs.)*	*Provided to No. of Farmers*
1.	Vegetables	4915	9850	240
2.	Fruits	1739	62000	384
3.	Ornamentals	573	11500	42
4.	Fodder	6932	34660	75
5.	Medicinal	174	3460	62
	TOTAL	**14333**	**121470**	**803**

3.6. Literature Developed/Published (with full title, author & reference)

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

(B) Literature developed/published

Item	*Title*	*Authors name*
a. Abstracts		
	Seed village programme in cumin: An innovative approach for small farmers. National Seminar on "New dimensional approaches for enhancement of seed spices productivity and profitability under era of climate change". ICAR-NRCSS and DASD, at Ajmer, 203-Feb. 2016:376.	Dheeraj Singh, M.K. Choudhary, M.L. Meena and C. Kumar (2016)
	Impact assessment of technological interventions on fennel yield at farmers' field in arid zone of Rajasthan. National Seminar on "New dimensional approaches for enhancement of seed spices productivity and profitability under era of climate change". ICAR-NRCSS and DASD, at Ajmer, 203-Feb.	M.L. Meena, D. Singh, M.K. Choudhary and C. Kumar (2016)

	2016:377.	
	Effect of Technological Interventions on Yield and Economics of Cumin in Pali District of Rajasthan, India. International Extension Education Conference on Education, Research and services. BHU, Varanasi (UP) 27-30 January, 2016:98	M.L. Meena, Dheeraj Singh and M.K. Choudhary (2016)
	Participatory varietal selection programme: An innovative extension approach for small farmers. International Extension Education Conference on Education, Research and services. BHU, Varanasi (UP) 27-30 January, 2016:207.	Dheeraj Singh , M.K. Choudhary, M.L. Meena and C. Kumar (2016)
	Impact of vegetable extension in Pali district of western Rajasthan. International Extension Education Conference on Education, Research and services. BHU, Varanasi (UP) 27-30 January, 2016:207.	C. Kumar, M.L. Meena, Dheeraj Singh and M.K. Choudhary (2016)
	Role perception of sheep farming activities in Western Rajasthan: A gender perspective. National conference on Global research initiatives for sustainable agriculture and allied sciences, 12-13 Dec., 2015: 94. RVSKVV, Gwalior, MP	M.L. Meena, Dheeraj Singh and M.K. Choudhary (2015)
	Conserving of land races of novel vegetables for nutritional security in Western Rajasthan. National conference on Global research initiatives for sustainable agriculture and allied sciences, 12-13 Dec., 2015: 135. RVSKVV, Gwalior, MP	C. Kumar, M.K. Choudhary, D. Singh and M.L. Meena (2015)
b. Paper		
	Knowledge level of poultry keepers about improved poultry practices in Rajasthan. Indian Journal of Poultry Science, 48 (2):203-208.	M.L. Meena and Dheeraj Singh (2015)
	Impact assessment of Krishi Vigyan Kendra training programme on mushroom cultivation in western Rajasthan. Mushroom Research 23 (1):79-83.	M.L. Meena and Dheeraj Singh (2015)
	Training needs of goat keepers in Marwar region of Rajasthan. Indian Journal of Small Ruminants 21(1):161-164	M.L. Meena and Dheeraj Singh (2015)
	Front line demonstrations on cotton production technology: An impact assessment. Journal of Cotton Research and Development 30(1):149-155.	M.L. Meena and Dheeraj Singh (2015)
c. Popular articles		
	किसानों के लिए लाभकारी सरकारी योजनाऐं. राजस्थानी खेती, अंक–3, जून 2015:32–34.	मोती लाल मीणा, धीरज सिंह एवं एम. के. चौधरी (2015)
	हरे चारे के लिए नेपियर घास. खेती, आई.सी.ए.आर. पूसा नई दिल्ली, अंक–8, मई 2015:37–40.	मोती लाल मीणा, धीरज सिंह एवं पी. के. तोमर (2015)
	तिल की वैज्ञानिक खेती से भरपूर लाभ कमाऐं. राजस्थान खेती–प्रताप, एम.पी.यू. ऐ.टी., उदयपुर, अंक–01, जुलाई 2015:11–12.	मोती लाल मीणा, धीरज सिंह एवं एम. के. चौधरी (2015)
	अरण्डी की उन्नत खेती से लाभ ही लाभ. किसान भारती, जी.बी.प. कृ.वि.वि., पंतनगर, अंक–11, अगस्त 2015,	मोती लाल मीणा, धीरज सिंह एवं पी. के. तोमर (2015)
	राजस्थान का बहुउपयोगी वृक्ष खेजड़ी. फल–फूल, अंक:6, नवम्बर–दिसबंर, 2016:19–23.	मोती लाल मीणा, धीरज सिंह, एम.के. चौधरी एवं पी.के. तोमर (2015)
	शुष्क क्षेत्रों में खजूर की व्यवसायिक खेती. फल–फूल, आई.सी.ए.आर. पूसा नई दिल्ली, अंक–4, जूलाई–अगस्त, 2015	मोती लाल मीणा, धीरज सिंह एवं पी. के. तोमर (2015)
	आदीवासी क्षेत्रों में मक्का उत्पादन की उन्नत खेती. राजस्थानी खेती, अंक–02, मई 2015:18–20.	मोती लाल मीणा, धीरज सिंह एवं एम. के. चौधरी (2015)

d. Poster	
	सूखे चारे को यूरिया घोल से उपचारित कर चारे की पौष्टिकता बढाना
	काजरी की बहु पोषक तत्व आहार बट्टिका एवं मिश्रण
	फसलों को हानि पहुंचाने वाले मुख्य कीट एवं रोकथाम
	Success story of Sh. Chand Mohammad farmer
	Success story of Sh. Deda Ram Patel farmer
	Success story of Sh. Madan Lal Devra farmer
	Poster on Barley species
	Poster on Cumin species
	कलिकायन द्वारा उन्नत फलदार पौधे तैयार करना
	Seed production programme of vegetables under National Horticulture Mission
	Poster on Ber rejuvenation
	Poster on Kachra species
	किसान भाईयों क्या आप पशुओं के कम दूध उत्पादन से चिंतित हैं ?
e. Folders	
	Folder on ‘‘कैर – बारानी क्षेत्रों के लिये वरदान’’
	Folder on ‘‘मेहंदी की व्यावसायिक खेती’’
	Folder on ‘‘बहुवर्षीय धामण घास के चरागाह पौष्टिक आहार के स्रोत’’
	Folder on ‘‘हरे चारे के लिये नेपियर घास की उन्नत शष्य तकनीक’’
	Folder on ‘‘मूँग की उन्नत खेती’’
	Folder on ‘‘ग्वार की उन्नत खेती’’
	Folder on ‘‘चँवला की उन्नत खेती’’
	Folder on ‘‘नकदी फसल अरण्ड़ी की उन्नत खेती’’

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

Name	**:**	Sh. Chain Singh
Village	**:**	Balada
Education	**:**	8th
Income before intervention	**:**	Rs. 15000-20000 per month
Income after intervention	**:**	Rs. 75000-80000 per month
Intervention	**:**	Organic farming, dairy, ber orchard, vegetables
Motivation	**:**	KVK training, demonstrations
Impact	**:**	Income generate, socio -economic status and distribution of improved seed to other farmers and organic produce



Name	**:**	Sh. Sravan Singh Rathor
Village	**:**	Haziwas
Education	**:**	10th
Income before intervention	**:**	Rs. 20000 – 25000 per month
Income after intervention	**:**	Rs. 50000 – 52000 per month
Intervention	**:**	Fruit, vegetables, goattery and dairy
Motivation	**:**	KVK Vocational training
Impact	**:**	Income generate, socio -economic status and distribution of improved seeds, planting material and animals



3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year: NIL

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Seed storage	Seed storing earthen pot with ash to control of storage pest	Insect control
2.	Cumin	Foliar spray of neem based insecticide	Insect control
3.	Stomach ache in animals	To feed Tumba powder	Control of stomach ache
4.	Methi	Control of powdery mildew	Ash
5.	Cumin	Burning of crop residual at cumin field	Protection from frost
6.	Livestock	Wound of maggot	Crushed leaves of marua for control of maggot

3.10 Indicate the specific training need analysis tools/methodology followed

- Identification of courses for farmers/farm women
- Rural Youth
- In-service personnel

3.11 Field activities

i. Number of villages adopted : 15
ii. No. of farm families selected : 140
iii. No. of survey/PRA conducted : Village Kharda and Phulad

4.0 IMPACT

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

Name of specific technology/skill transferred	*No. of participants*	*% of adoption*	*Change in income (Rs.)*	
			Before (Rs./Unit)	*After (Rs./Unit)*
Multi-nutrient feed block/ Mixture preparation	35	61.30	Nil	6500 per month
Urea molasses	20	59.20	Nil	5200 per month
Vermi-composting unit	50	66.10	Nil	6000 per month

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

4.2. Cases of large scale adoption: NIL
(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period

Impact of training

Pre and Post evaluation of On-campus trainings

Title of Training	*No. of farmers*	*Knowledge level (%)*		*Know. Gain (%)*
		Pre	*Post*	
Improved agricultural implements technology	30	30.1	50.1	20
Adoption of fruits and vegetables production technology	40	26.1	54.35	28.25
Processing, packaging, storage and export of horticulture crops	50	33.15	60.1	26.95
Field crop production technology	45	40.4	66.33	25.93
Rain water harvest management	45	43.9	67.77	23.87
Production technology of fodder crops	40	37.15	53.09	15.94
Nursery management of flowers	40	36.12	64.99	28.87
Stitching of baby garments	22	20.1	48.5	28.4
Production technology of vegetables	50	40.13	50.15	10.02
Adoption technology of arid fruits	50	40.1	57.54	17.44
Propagation of fruit and vegetable in arid and semi arid regions	40	40.53	55.66	15.13
Weed management in rabi crops	40	42.1	70.85	28.75
Bandhej technique	20	30	46	16
Preservation and value addition of fruit and vegetables	40	27	65.35	38.35
Indigenous technology use in agriculture production	40	30.15	59.13	28.98
Modern information technology	45	25.9	60.22	34.32
IPM in seed spices	40	20.33	57.42	37.09
Cultivation practices of arid fruits and vegetables	35	27.12	58.1	30.98
Adoption of improved varieties of wheat and mustard crops	40	16.2	67.33	51.13
Indigenous technology used in livestock	35	15.3	70.60	55.3

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	*Nature of linkage*
• CAZRI, RRS, Pali	Collaborative training programme, OFT, delivering lectures, meeting and Kisan mela / field days etc
• ATMA	Collaborative training programme, demonstration, meeting and Kisan mela, field days, infrastructural development etc
• Dept of Agriculture	Participation in joint diagnostic survey, kisan melas, field days, farmers meeting, delivering lectures.
• NABARD	Implementation of recent scheme of Technology Transfer Clubs having basic philosophy of Self Help Groups
• Dept of Horticulture	Collaborative training programme, meeting and Kisan mela, field days etc.
• Dept of Soil Conservation	Joint course as per need is being conducted
• DRDA	Participation as technical expert in various training and developmental programmes and activities
• ICDS	Participation as technical expert in various women empowerment programmes and activities
• Nehru Yuva Kendra	Participation as technical expert in various rural youth development activities
• State Fisheries Department	Production technologies of improved fish farming
• State Forest Department	Improved nursery technology for arid fruits and ornamental plants
• AFRI	Collaboration for training programme and conservation of natural forest
• DWR	Collaboration for training programme and awareness for farmer right protection and recently released wheat varieties
• NRCSS	Collaboration for training programme and awareness for recently released seed spices varieties
• DRMR	Collaboration for training programme and awareness for recently released mustard varieties
• CSSRI	Collaboration for training programme and awareness for recently released saline resistant wheat and mustard varieties
• NHM	Collaboration for training programme, meetings, demonstrations and farmer school
• CIPMC	Collaboration for farmers' farm school and training programme
• ARS, SKRAU	New varieties of vegetables and wheat crops
• NAARM	Training programme of newly recruited scientists

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

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

S. No.	*Project Title*	*Fund (Rs.)*
	NHM	
	Model Nursery of medicinal plants at KVK farm	20,00,000.00
	NABARD	
	RIF project on panchkutta	7,70,000.00
	FIPF project on CAZRI pasture establishment technology	9,98,000.00
	Grand Total	**37,68,000.00**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No: Yes

S. No.	*Programme*	*Nature of linkage*	*Remarks*
1.	Training	Collaborative training programme and meeting etc.	-
2.	Farmers school	Training to farmers	-
3.	Demonstrations	Production technology	-

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	*Programme*	*Nature of linkage*	*Constraints if any*
1.	Training	Training of farmers	-
2.	Seed multiplication programme	Seed production	
3.	Seed grading unit	Improved seed for farmers	
4.	Fruit orchard development	Fruit production	
5.	Model Nursery	Development of model nursery	-

5.5 Nature of linkage with NABARD

S. No.	*Programme*	*Nature of linkage*	*Remarks*
1.	Rain water harvesting	Water conservation	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	*Demo Unit*	*Year of estt.*	*Area*	*Details of production*			*Amount (Rs.)*		*Remarks*
				Variety	*Produce*	*Qty.*	*Cost of inputs*	*Gross income*	
1.	Ber	1998	0.7	Gola, Sev	Auctioned	98 plants	6600	11500	-

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	*Date of sowing*	*Date of harvest*	*Area (ha)*	*Details of production*			*Amount (Rs.)*		*Remarks*
				Variety	*Type of Produce*	*Qty. (Kg) approx.*	*Cost of inputs*	*Gross income*	
Oilseeds									
Til	2.7.2015	-	2	RT 346/351	Seed	0	3500	Not sold	Failed due to drought
Mustard	18.10.2015	26.2.2016	0.7	NRCDR 2	Seed	1000	65000	Not sold	Reserved for seed
Others									
Aloe vera plants	-	-	-	NPBG-1	Plant	49 no.	-	980	-
Grass	-	-	20	Dhaman	Fodder	-	-	71000	-
Ber	-	-	0.5	Gola	Fruit	-	4500	11500	-
Napier grass offshoot	-	-	0.5	NHB 1	Seedlings	6932 no.	1500	34660	

6.5 <u>Rainwater Harvesting</u>

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	*Title of the training course*	*Client (PF/RY/EF)*	*No. of Courses*	*No. of Participants including SC/ST*			*No. of SC/ST Participants*		
				Male	*Female*	*Total*	*Male*	*Female*	*Total*
5/11/2015	Raiwater harvesting for crop production	PF	1	20	5	25	12	6	18
6/12/2015	Cultivation of arid vegetable through rain water harvesting	PF	1	35	0	35	5	0	5

6.5 Utilization of hostel facilities

Accommodation available (No. of beds): 20 (3 dormitory capacity 8 each)

Months	Title of the training course/Purpose of stay	*No. of trainees stayed*	*Trainee days (days stayed)*	*Reasons for shortfall (if any)*
Feb 2016	RAWE students	16	45	-

*** Funds required for renovation**

7.0 FINANCIAL PERFORMANCE

7.1 Utilization of KVK funds during the year 2014-15 (upto 1st April 2015) (year-wise separately)

YEAR 2013-2014 (1.4.2014 – 31.3.2015)

S. No.	*Particulars*	*Sanctioned*	*Released*	*Expenditure*
A. Recurring Contingencies				
1	**Pay & Allowances**	840000	840000	7108252
2	**Traveling allowances**	50000	50000	53401
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	250000	250000	600000
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	375000	375000	640041
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
TOTAL (A)		**9075000**	**9075000**	**8401694**
B. Non-Recurring Contingencies				
1	**Works**	0	0	0
2	**Equipments including SWTL & Furniture**	0	0	0
3	**Vehicle** (Four wheeler)	0	0	0
4	**Library** (Purchase of assets like books & journals)	0	0	0
TOTAL (B)		0	0	0
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**9075000**	**9075000**	**8401694**

7.2 Status of revolving fund (Rs. in lakhs) for the three years

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 2013 to March 2014	258449	436500	247247	447702
April 2014 to March 2015	447702	484688	887390	45000
April 2015 to March 2016*	45000	649724	325000	369724

* Final bills not adjusted with Headquarter.

8.0 PLEASE INCLUDE INFORMATION WHICH HAS NOT BEEN REFLECTED ABOVE (WRITE IN DETAIL).

8.1 Constraints

(a) Administrative

1. Post of administrative staff viz. **one Stenographer and one drivers are also vacant**.

(b) Financial : Nil

(c) Technical : **Lack of farm security** leads to unbearable losses making it difficult to utilize revolving fund remuneratively through seed and commercial crop production programmes

Annexures

District Profile - I

Include the details of

1. General census : **20,38,533**
2. Agricultural and allied census : **13,25,046**
3. Agro-climatic zones : **Transitional plain of Luni basin (Zone II b)**
4. Agro-ecosystems : **Western Dry Region (XIV)**
5. Major and micro-farming systems : **Crop+sheep and goat husbandry; Cattle+crop husbandry**
6. Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc. : **Wheat-Mustard-Chickpea-Cumin-Fennel-Fenugreek-Green gram-Sesame-Sorghum**
7. Major agriculture and allied enterprises : **Animal husbandry, horticulture**

Agro-ecosystem Analysis of the focus/target area - II

Include

1. Names of villages, focus area, target area etc. : **Phulad, Kharda, Bhimalia, Kharchia ke Dhani, Hemawas, Haziwas, Kisan nagar, Bed kala**
2. Survey methods used (survey by questionnaire, PRA, RRA, etc.) : **PRA**
3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc. : **Questionnaire, village transect, social map, resource map, ranking, wealth diagram, seasonal calendar and Vann diagram**
4. Analysis and conclusions : **Assessment**
5. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem : **Low soil fertility, salinity effect, lack on input seeds**
6. Matrix ranking of problems : **Nil**
7. List of location specific thrust areas : **Low rainfall**
8. List of location specific technology needs for OFT and FLD : **Timely provide improved seeds.**
9. Matrix ranking of technologies : **Nil**
10. List of location specific training needs : **Fodder production, IPM in seed spices, soil fertility management, balance diet of cattle**

Technology Inventory and Activity Chart - III

Include

1. Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs
2. Inventory of latest technology available *

Sl. No	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/citation
1.	GC 4	Cumin	2009	AAU, Anand	-

3. Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Cumin	Low productivity of cumin under rainfed condition in sandy soil	1) Imbalance fertilizer application 2) Pest and disease	1. Application of recommend dose of fertilizer 2. Integrated Pest management control of aphid 3. Integrated disease management control of powdery mildew of cumin	1. Single component FLD to demonstrate effect of recommended dose of fertilizer 2. Training and FLD programme on integrated pest management and disease managment 3. OFT on management of wilt incumin	-

1. Details of each of the technology under Assessment, Refinement and demonstration Include

a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT

Improved seed and bio-fertilizer

b. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs

Trichoderma 2.5gm/kg of seed to control of wilt in cumin; dieomethoat 30EC 2 ml per liter water spray on cumin crop to control of aphid