

 : (02932) 256771/ Fax:256771



केन्द्रीय शुष्क क्षेत्र अनुसंधान
संस्थान
कृषि विज्ञान केन्द्र
पाली-मारवाड़ (राज.) 306 401



**Annual Progress Report
(April 2009 to March 2010)**

Krishi Vigyan Kendra

CAZRI, Pali-Marwar 306 401

CONTENTS

<i>S. No.</i>	<i>Title</i>	<i>Page No</i>
1.	General information	1
2.	Staff position	2
3.	Infrastructural development	4
4.	SAC meeting	4
5.	Detail of district	6
6.	Thrust area	9
7.	Technical achievement	11
8.	OFT	12
9.	Front Line Demonstrations	18
10.	Training	24
11.	Extension activities	39
12.	Production and supply of produce	42
13.	Literature development	43
14.	Success stories	47
15.	Impact	48
16.	Linkages	51
17.	Performance of Instructional farm	52
18.	Financial performance	55

FOR ANNUAL REPORT – 2009-10
(01.4.2009 TO 31.03.2010)

1. GENERAL INFORMATION ABOUT THE KVK

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

<i>Address</i>	<i>Telephone</i>		<i>E mail</i>
	<i>Office</i>	<i>FAX</i>	
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

<i>Address</i>	<i>Telephone</i>		<i>E mail</i>
	<i>Office</i>	<i>FAX</i>	
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.

<i>Name</i>	<i>Telephone / Contact</i>		
	<i>Residence</i>	<i>Mobile</i>	<i>Email</i>
Dr. Dheeraj Singh	-	9414194005	dheerajthakuralla@yahoo.com

1.4. Year of sanction: 1992

1.5. Staff Position (as on 31st March 2010)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. Dheeraj Singh	Head	Horticulture	15600 - 39100 GP 7600	31230	19 Sept. 08	Temporary	Gen.
2	Subject Matter Specialist	Dr. M. K. Chaudhary	T-7 (SMS)	Agronomy	15600 - 39100 GP 6600	31100	30 Nov 96	Permanent	Gen.
3	Subject Matter Specialist	Dr. Haridyal	T-6 (SMS)	Horticulture	15600 - 39100 GP 5400	28030	21 Feb 97	Permanent	SC
4	Subject Matter Specialist	Dr. M. L. Meena	T-6 (SMS)	Agril. Extn.	15600 - 39100 GP 5400	22280	28 Apr 07	Permanent	ST
5	Subject Matter Specialist	Ms. Aishwarya Dudi	T-6 (SMS)	Home Science	15600 - 39100 GP 5400	22280	9 Aug 07	Permanent	OBC
6	Subject Matter Specialist	Dr. S. C. Kachhawaha	T-6 (SMS)	Animal Science	15600 - 39100 GP 5400	21630	3 May 08	Permanent	Gen.
7	Technical Officer	Sh. M.S. Choudhary	T5	-	9300-34800 GP 4600	20480	30 Jan 09	Permanent	Gen.
8	Technical Officer	Sh. S. K. Dashora	T5 (Ag. En.)	Agril. Econ.	9300-34800 GP 4600	18310	1 Aug 06	Permanent	Gen.
9	Programme Assistant	Sh. A. K. Maru	T4 (Agri.)	Nematology	9300-34800 GP 4200	13900	27 May 08	Permanent	SC
10	Computer Programmer	Sh. P. K. Tomar	T4 (Comp.)	Computer	9300-34800 GP 4200	13900	5 Nov 08	Temporary	Gen.
11	Accountant / Superintendent	Sh. Anil Bhandari	OS/Acct.	-	9300-34800 GP 4200	14430	03 Jan 07	Permanent	Gen.
12	Driver	Sh. Tara Ram	T5 (Driver)	-	9300-34800 GP 4600	20060	01 Jul 94	Permanent	ST
13	Supporting staff	Sh. Tara Ram	Cook	-	5500 - 20200 GP 1800	8920	30 Nov 96	Permanent	ST
14	Supporting staff	Sh. Bhola Ram	R/ M	-	5500 - 20200 GP 1800	8860	30 Nov 96	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. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	9.8.1998	715.7	2200000	-	-	-
2.	Farmers Hostel	ICAR	9.8.1998	329.5	1150000	-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	ICAR	-	-	-	-	-	-
5	Fencing	ICAR	40 yrs old	-	-	-	-	-
6	Rain Water harvesting system	Nil	-	-	-	-	-	-
7	Threshing floor	Nil	-	-	-	-	-	-
8	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

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	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	Installment in progress

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

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	30.6.2008	<ol style="list-style-type: none"> 1. Dr. K.P.R. Vittal, Director, CAZRI 2. Dr. N.V. Patil, Head, Division-III 3. Dr. M.K. Madape, ZC, Zone VI 4. Dr. Suresh Kumar, Head, Division-IV 5. Dr. Y.V. Singh, Head, Division-VI 6. Dr. M.L. Vikram, Deputy Director, Animal Science 7. Shri M.S. Champavat, AD (Hort.) 8. Dr. N.K. Sharma, ADR, ARS, Jalore 9. Shri V.K. Pande, Deputy Director, Agriculture 10. Shri G.L. Nirwan, DDM, NABARD 11. Shri G.L. Kumavat, AD, Agriculture 12. Smt. Usha Puri, DD (ICDS) 13. Shri Kulkarni, 14. Smt. Aman Kaur, Head, NRM 15. Dr. Sunil S. Mahajan, Sr. Scientist, Division-IV 16. Dr. M.C. Bhandari, Head, KVK, Jodhpur 17. Dr. P.P. Rohilla, Office Incharge, RRS, Pali 18. Dr. Khemchand, Sr. Scientist (Ag. Eco.) 19. Dr. B.L. Jangid, Sr. Scientist (Ag. Ext.) 20. Dr. S.S. Rao, Sr. Scientist (Agro.) 	<ol style="list-style-type: none"> 1. Trials on mix cropping system may be assessed for fodder, grain productivity, economics and cropping system from feasibility point of view. 2. Traditional cropping system may be documented and specified for “farmers practice” and variety may be specified (farmers’ seed). 3. Farm area may be effectively utilized for crop/ grass/ plant / animal / seed production. 4. Productivity / yield levels of district state average may be mentioned with OFT and FLD results. (Action: SMS – Agronomy and Horticulture) 5. Formation of Self Help Group (SHG) in adopted villages and organize vocational trainings like kitchen gardening, value addition for fruit and vegetable, dairy, meat and fish products to inculcate skill and generate employment for farm women / farmers to start an enterprise. (Action: SMS – Home Science/ Animal Science/ Horticulture) 6. Training topics in livestock production and management may be revised as per the problem identified in the region (Action: SMS – Animal Science) 7. To carried out impact analysis of KVK activities, data generation on adoption, impact of technology demonstration / FLD / OFT / training and feedback, documentation of success stories from KVK adopted areas. (Action: All SMS) 8. To educate farmers about balanced feeding, breeding & health management of animals. (Action: SMS – Animal Science) 9. Indigenous breed may be conserved and efficiently utilized for increasing the milk production of the area. (Action: SMS – Animal Science) 10. To identify the problem related animal science in different tehsils/ blocks and then introduce the area specific technique to increase the production of animals. 11. OFT based on local resources availability and more number of OFT 	<p>Actions has been taken on all the recommendations</p>

		<p>21. Dr. P.K. Roy, Sri. Scientist (PBG) 22. Shri P.L. Regar, Scientist (Ag. Eng.) 23. Shri Ramesh Chopra, ACF, Sumerpur, Pali 24. Dr. S.P. Vyas, P.S. (Plant Phys.) 25. Dr. S.P. Mathur, Manager, Pali Dairy 26. Dr. S.P.S. Tanwar, Sr. Scientist (Agro.) 27. Dr. S. Dutt, Sr. Scientist (Plant Breeding) 28. Shri Raja Ram, Farmer, Village Khandi 29. Shri Santosh, Village Hingola 30. Shri Sajjan Singh, Village Hingola</p>	<p>conduct. 12. Find out schemes and policies and strengthen linkages with various line departments and NGOs working to help the rural communities. (Action: SMS – Home Science, Agril. Extn.) 13. Human drudgery in various farm operations may be reduced by making farmwomen aware of various improved equipments, using solar equipments for cooking and lightening etc. (Action: SMS – Home Science, Agril. Extn.) 14. Management (demonstration units) of Nursery & orchard at KVK and farmers' field. (Action: SMS – Horticulture) 15. To develop crop museum, Integrated Farming System and Instructional units at KVK farm for farmers. (Action: All SMS)</p>	
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2. DETAILS OF DISTRICT (2009-10)

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

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

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

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

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Typic Torripsamments <i>Ustochreptic Camborthids</i> (Map Unit 114)	Very deep, well drained, sandy soils on gently sloppy plains with sandy surface, severely eroded, associated with: Very deep, well drained coarse loamy soil, severely eroded, slightly saline	205900
2.	Typic Camborthids <i>Typic Camborthids</i> (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 <i>Typic Camborthids</i> (Map Unit 129)	Moderately shallow, well drained, fine loamy soils on nearly level plain with loamy surface, slightly eroded, associated with: Moderately shallow, well drained, fine soils, moderately eroded, moderately saline.	140200
4.	Typic Camborthids <i>Typic Camborthids</i> (Map Unit 125)	Very deep, moderately well drained, coarse loamy soils, on very gently sloppy aeofluvial plains of luni basin with sandy surface, moderate erosion associated with: very deep, well drained, coarse loamy soils on very gently sloppy aeofluvial plains of luni basin with slight erosion slightly saline and sodic	132200

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

<i>S. No</i>	<i>Crop</i>	<i>Area (ha)</i>	<i>Production (Qtl)</i>	<i>Productivity (Qtl/ha)</i>
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

<i>Month</i>	<i>Rainfall (mm)</i>	<i>Temperature ° C</i>		<i>Relative Humidity (%)</i>	
		<i>Maximum</i>	<i>Minimum</i>	<i>I</i>	<i>II</i>
Apr.-09	0.0	39.5	21.7	32.7	21.4
May-09	6.0	40.9	28.9	52.7	26.6
June-09	21.4	40.8	28.4	62.9	33.1
July-09	104.0	36.7	27.5	79.3	56.5
Aug.-09	25.6	35.6	26.6	77.5	52.7
Sept.-09	0.0	38.6	25.5	68.0	36.0
Oct.-09	0.0	37.2	20.9	51.8	28.0
Nov.-09	0.5	32.0	14.5	52.5	31.2
Dec.-09	0.0	28.5	11.4	61.3	34.7
Jan.-10	0.0	27.6	8.9	64.4	33.5
Feb.-10	0.0	30.6	15.8	50.2	24.9
March-10	0.0	37.8	19.8	38.3	20.7

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 (2009-10)

S. No	P. S.	Block	Village	Major crops	Major problems	Thrust Areas
1	Rohat	Rohat	<ul style="list-style-type: none"> • Khandi 	<ul style="list-style-type: none"> • Pearl millet • Green gram, • Mothbean • Sorghum • Sesame 	<ul style="list-style-type: none"> • Weed management in rainfed crops • low yield of major crops • Fodder scarcity 	Dry land farming
2	Pali	Pali	<ul style="list-style-type: none"> • Khetawas • Giradara • Gulabpura 	<ul style="list-style-type: none"> • Gram • Sorghum • Sesame • Green gram • Pearl millet • Wheat 	<ul style="list-style-type: none"> • Saline/sodic land/irrigation water • Poor fertility status of land/low yield of major crops 	Dry land farming and Conserve moisture agriculture
3	Marwar Jn.	Marwar Jn.	<ul style="list-style-type: none"> • Vithura Kalan • Rampura • Hingola Kalan 	<ul style="list-style-type: none"> • Wheat • Barley • Mustard • Green gram • Clusterbean • Sorghum • Sesame 	<ul style="list-style-type: none"> • Saline/sodic land/irrigation water • Poor fertility status of land/low yield of major crops 	Integrated crop management
4	Desuri	Desuri	<ul style="list-style-type: none"> • Busi • Inderwada • Patherly 	<ul style="list-style-type: none"> • Wheat • Mustard • Barley • Cumin • Green gram • Clusterbean • Sorghum • Sesame 	<ul style="list-style-type: none"> • 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 2009-10

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
7	4	35	30	190	274	190	274

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	90	98	2000	2688	95	284	1250	5569
Rural youth	5	5	155	185				
Extn. Functionaries								

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
8	14.98	2750	2750

3.B Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					Supply of seeds, planting materials etc.
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	
1.	Management of limited, saline/ sodic water and soil	1. Wheat 2. Mustard 3. Cumin	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	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	-	-	-	1. Seeds of RAJ 4037 var. 2. NRC DR 2 3. RZ 223
2.	Dry land farming	Fodder Sorghum	Low yield	Improving quality and production of fodder Sorghum	-	-	-	-	Seeds of sorghum (CSV 17)
3.	Dry land farming	Pearl millet	Low yield	Improving productivity of pearl millet seed and fodder	-	-	-	-	HHB 67
4.	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	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	10	2	2	1	2	1				18
TOTAL	10	2	2	1	2	1				18

* 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	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2	2	2	1	2	1				10
TOTAL	2	2	2	1	2	1				10

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

A.3 Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management	2		2	2				6
Disease of Management	1		4	4				9
Value Addition								
Production and Management								
Feed and Fodder	5		5	5				15
Small Scale income generating enterprises	2		2	2				6
TOTAL	10		13	13				36

A.4 Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	2		2	2				6
Nutrition Management	1		4	4				9
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder	5		5	5				15
Small Scale income generating enterprises	2		2	2				6
TOTAL	10		13	13				36

B. Details of each On Farm Trial to be furnished in the following format

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. **Thematic area** :
7. **Performance of the Technology with performance indicators** : Higher yield than farmers' practice
8. **Final recommendation for micro level situation** : High production
9. **Constraints identified and feedback for research** : Nil
10. **Process of farmers participation and their reaction** : Good quality seed and high production

Trial 2: Mustard

1. **Title** : Production maximization of mustard under rainfed condition
2. **Problem diagnose/defined** : Low yield due to low rainfall
3. **Details of technologies selected for assessment/ refinement** : High yielding variety for rainfed condition (NRC DR 2)
4. **Source of technology** : NRC Raipseed and Mustard, Bharatpur
5. **Production system thematic area** : Irrigated, Varietal evaluation
6. **Thematic area** : Rainfed farming
7. **Performance of the Technology with performance indicators** : Higher yield than farmers' practice
8. **Final recommendation for micro level situation** : High production
9. **Constraints identified and feedback for research** : Nil
10. **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 low rainfall
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. **Thematic area** : Rainfed farming
7. **Performance of the Technology with performance indicators** : Higher yield than farmers' practice
8. **Final recommendation for micro level situation** : High production
9. **Constraints identified and feedback for research** : Yellowish at the time of flowering
10. **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 17)
4. **Source of technology** : NRC for Sorghum, Hyderabad
5. **Production system thematic area** : Rainfed, Varietal evaluation
6. **Thematic area** :
7. **Performance of the Technology with performance indicators** : Higher fodder yield than farmers' practice
8. **Final recommendation for micro level situation** : In progress
9. **Constraints identified and feedback for research** : In progress
10. **Process of farmers participation and their reaction** : In progress

Trial 5: Ber

1. **Title** : Improving production technologies of ber in rainfed conditions of Pali district
2. **Problem diagnose/defined** : Low yield
3. **Details of technologies selected for assessment/ refinement** : High yielding variety (Gola)
4. **Source of technology** : CAZRI, Jodhpur
5. **Production system thematic area** : Rainfed, Varietal evaluation
6. **Thematic area** :
7. **Performance of the Technology with performance indicators** : Good quality fruits and high production
8. **Final recommendation for micro level situation** : Good quality fruits and insect free
9. **Constraints identified and feedback for research** : Nil
10. **Process of farmers participation and their reaction** : High production of fruits

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
	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	5	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)	Grain yield		Conti.	Conti.

* 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		
Local var.	Raj 3077	Raj 4037	2150	2525	2875	14120	18260	21720	2.1	2.5	2.7
Local var.	RZ 19	RZ 223	564	757	966	28500	45875	67000	1.67	1.94	2.24

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

Note: T₁ = Farmers' practice, T₂ = Recommended, T₃ = 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 be 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. | Thematic area | : | |
| 7. | Performance of the Technology with performance indicators | : | Higher fruit yield than control |
| 8. | Final recommendation for micro level situation | : | Good quality fruit |
| 9. | Constraints identified and feedback for research | : | Nil |
| 10. | 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	Justification for refinement
Ber	Rainfed	Low yield	Yield improvement of ber orchards through organic manuring with water conservation techniques	501	Rainwater harvesting (Circular catchment) + nutrient management through FYM (50 kg)+ Vermi-compost (10 kg) per plant	Fruit yield	8	9 Conti.	10 Conti.	11 Conti.

• No. of farmers

Technology Assessed / Refined		*Production per unit			Net Return (Profit) in Rs. / unit			BC Ratio			
		12			13			14			
<i>T₁</i>	<i>T₂</i>	<i>T₃</i>	<i>T₁</i>	<i>T₂</i>	<i>T₃</i>	<i>T₁</i>	<i>T₂</i>	<i>T₃</i>	<i>T₁</i>	<i>T₂</i>	<i>T₃</i>
No water harvesting, No manuring	Circular catchment for rainwater harvesting +pond soil + FYM	Circular catchment for rainwater harvesting +pond soil+ vermicompost	23.7	34.3	40.1	131.3	291.1	350.9	2.3	3.4	3.7

*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: *T₁* = Farmers' practice, *T₂* = Recommended, *T₃* = 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 2009-10 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1.	Til	Integrated crop management	Package of practices for Sesame <ul style="list-style-type: none"> Seed (RT 127) Fertilizer (DAP 54 kg/ ha) Biofertilizer (PSB) 	<ul style="list-style-type: none"> Result demonstration Extension literature Extension activities viz. Field day, Kisan Goshthi, Field visit etc. 	10	105	85
2.	Moong	Integrated crop management	Package of practices for Moong <ul style="list-style-type: none"> Seed (RMG 344) Fertilizer (DAP 65 kg/ ha) Biofertilizers (PSB, PSB) 	<ul style="list-style-type: none"> Result demonstration Extension literature Extension activities viz. Field day, Kisan Goshthi, Field visit etc. 	5	50	40
3.	Mustard	Integrated crop management	Package of practices for Mustard <ul style="list-style-type: none"> Seed (Vasundhra) Fertilizer (DAP 87, Urea 96, Sulphur 40 kg/ ha) Biofertilizers (PSB, PSB) IPM 	<ul style="list-style-type: none"> Result demonstration Extension literature Extension activities viz. Field day, Kisan Goshthi, Field visit, farmers' scientists interaction etc. 	5	30	45
4.	Wheat	Varietal evaluation	Improved Wheat var. Raj 4037	<ul style="list-style-type: none"> Result demonstration Extension literature 	10	40	20
5.	Barley	Varietal evaluation	Improved Barley var. RD 2052, RD 2503, RD 2552	<ul style="list-style-type: none"> Result demonstration Extension literature 	15	75	30
6.	Cumin	Varietal evaluation	Improved Cumin var. RZ 223	<ul style="list-style-type: none"> Result demonstration Extension literature Extension activities viz. Field day, Kisan Goshthi, Field visit etc. 	5	20	5

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

Annual Progress Report 2009-2010

b. Details of FLDs implemented during 2009-10 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Wheat	Varietal performance	Seed, Biofertilizer	Rabi 2009-10	15	15	03	30	33	-
2.	Barley	Varietal performance	Seed, Biofertilizer	Rabi 2009-10	15	15	10	29	39	-
3.	Cluster bean	Varietal performance	Seed, Biofertilizer	Kharif 2009	10	10	05	15	20	-
4.	Maize	Varietal performance	Seed, Biofertilizer	Kharif 2009	10	10	05	15	20	-
5.	Sorghum	High production	Seed	Summer 2009	00	05	02	08	10	
6.	Mustard	Varietal performance	Seed, Biofertilizer	Rabi 2009-10	20	20	12	28	40	-
7.	Gram	Varietal performance	Seed, Biofertilizer	Rabi 2009-10	20	20	04	16	20	-
8.	Cumin	Varietal performance	Seed, Organic manure	Rabi 2009-10	05	05	02	08	10	
9.	Maithi	Varietal performance	Seed, Organic manure	Rabi 2009-10	00	01	0	05	05	
10.	Okra	High production	Seed, Organic manure	Kharif 2009	00	05	04	16	20	
11.	Tomato	High production	Seed, Organic manure	Kharif 2009	00	05	02	18	20	
12.	Bottle Gourd	High production	Seed, organic manure	Kharif 2009	00	10	06	26	32	
13.	Guar	High production	Seed, organic manure	Kharif 2009	05	05	05	15	20	
14.	Tinda	High production	Seed, organic manure	Kharif 2009	05	05	05	15	20	
15.	Kachri	High production	Seed, organic manure	Kharif 2009	00	05	02	18	20	
16.	Kachra	High production	Seed, organic manure	Kharif 2009	00	05	03	17	20	
17.	Brinjal	High production	Seed, organic manure	Kharif 2009	00	05	02	18	20	
18.	Ber	Development of orchard	Planting material	Kharif 2009	10	10	00	10	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi	Irrigated	Sandy loam	L	L	M	Guar	2 nd week of Nov 09	2 nd week of Mar 10	0	0
Barley	Rabi	Irrigated	Sandy loam	L	L	M	Guar	3 rd week of Nov. 09	2 nd week of Mar 10	0	0
Cumin	Rabi	Irrigated	Sandy loam	L	L	M	Moong	1 st week of Nov 09	Last week of Mar 10	0	0
Mustard	Rabi	Irrigated	Sandy loam	L	L	M	Moong	15 th Sept 15 th Oct. 09	Last week of Feb 10	0	0
Maithi	Rabi	Irrigated	Sandy loam	L	L	M	Til	1 st week of Nov 09	Last week of Mar 10		
Cluster bean	Kharif	Rainfed	Sandy loam	L	L	M	Fallow	2 nd week of July 09	-		
Maize	Kharif	Rainfed	Sandy loam	L	L	M	Fallow	2 nd week of July 09	-		
Til	Kharif	Rainfed	Sandy loam	L	L	M	Fallow	2 nd week of July 09	-		
Okra	Kharif	Irrigated	Sandy loam	L	L	M	Mustard	2 nd week of July 09	1 st week of Sept 09		
Bottle Gourd	Kharif	Irrigated	Sandy loam	L	L	M	Gram	2 nd week of July 09	1 st week of Sept 09		
Kachri	Kharif	Rainfed	Sandy loam	L	L	M	Barley	2 nd week of July 09	-		
Kachra	Kharif	Rainfed	Sandy loam	L	L	M	Barley	2 nd week of July 09	-		
Tinda	Kharif	Rainfed	Sandy loam	L	L	M	Wheat	2 nd week of July 09	1 st week of Sept 09		
Tomato	Kharif	Irrigated	Sandy loam	L	L	M	Barley	2 nd week of July 09	-		
Brinjal	Kharif	Irrigated	Sandy loam	L	L	M	Mustard	2 nd week of July 09			-
Guar	Kharif	Irrigated	Sandy loam	L	L	M	Wheat	2 nd week of July 09	2 nd week of Sept 09		
Sorghum	Summer	Irrigated	Sandy loam	L	L	M	Mustard	1 st week of April 09	1 st fortnight of June 09		

Annual Progress Report 2009-2010

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qt/ha			Yield of local Check Qt/ha	Increase in yield (%)	parameter in relation to technology	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Wheat	Seed, Biofertilizer	Raj 4037	33	15	43.5	32.0	37.0	29.3	26.3	-	-
2.	Barley	Seed, Biofertilizer	RD 2503	13	5	40.0	32.0	37.1	29.0	27.9	-	-
			RD 2052	13	5	43.0	33.0	38.0	30.8	23.4	-	-
			RD 2552	13	5	39.0	31.0	35.5	28.1	26.3	-	-
3.	Sorghum	Seed	SV-1080	10	10	360	280	311	233	33.4	-	-
4.	Cumin	Seed, Organic manure	RZ 223	20	10	10	5.0	7.56	4.8	57.0	-	-
5.	Mustard	Seed	GM 3	30	15	19.0	13.0	15.9	12.6	26.2	-	-
			NRC DR2	5	2.5	19.5	13.0	16.0	12.8	25.0	-	-
			Ashirwad	5	2.5	18.0	13.0	15.2	12.2	24.6	-	-
6.	Maize	Seed, Biofertilizer	Phem 2	20	10	24.5	17.0	20.5	16.0	28.1	-	-
8.	Gram	Seed	Pratap	40	20	*	-	-	-	-	-	-
7.	Cluster bean	Seed, Biofertilizer	RGM 112	20	10	*	-	-	-	-	-	-
8.	Okra	Varietal seed	AA, Prabani Kranti	20	05	90	40	65	50	30.0	-	-
9.	Bottle Gourd	Varietal seed	Pusa Naveen	32	10	200	80	140	60	13.3	-	-

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

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
20300	18700	48248	39275	27948	19575	2.4	1.9
15275	14565	43810	31720	28535	17055	2.9	2.1
16275	15500	44729	34200	28454	18700	2.7	2.0
14903	14200	39740	30372	24837	16172	2.6	2.1
5010	4830	14130	9076	9120	4246	2.8	1.8
31200	30280	89375	60000	58175	29720	2.86	1.98
17080	16876	47677	34490	30597	17614	2.8	2.0
16300	16100	48780	35500	32480	19400	3.0	2.2
15700	15100	46200	33400	30500	18300	3.0	2.2
9970	8479	28875	19700	18905	11221	2.9	2.3
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Annual Progress Report 2009-2010

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
Wheat	Rabi	1. Seed/Variety Raj 4037	Irrigated	37.0	29.3	26.3
Barley	Rabi	1. Seed/Variety RD 2503	Irrigated	37.1	29.0	27.9
		2. Seed/Variety RD 2052	Irrigated	38.0	30.8	23.4
		3. Seed/Variety RD 2552	Irrigated	35.5	28.1	26.3
Cumin	Rabi	1. Seed/Variety RZ 223	Irrigated	7.56	4.8	57.0
Sorghum	Summer	1. Seed/Variety SV 1080	Irrigated	280.0	233.0	33.4
Cluster bean	Kharif	1. Seed/Variety RGM 112	Rainfed	*	-	-
Maize	Kharif	1. Seed/Variety Phem 2	Irrigated	20.5	16.0	28.1
Mustard	Rabi	1. Seed/Variety GM 3	Irrigated	15.9	12.6	26.2
		2. Seed/Variety NRC DR2	Irrigated	16.0	12.8	25.0
		3. Seed/Variety Ashirwad	Irrigated	15.2	12.2	24.6
Gram	Rabi	1. Seed/Variety Pratap	Irrigated	*	-	-
Methi	Rabi	1. Seed/Variety RMT 305	Irrigated	*	-	-
Tomato	Rabi	1. Seed/Variety	Irrigated	*	-	-
Bottle Gourd	Rabi	1. Seed/Variety	Irrigated	*	-	-
Okra	Kharif	1. Seed/Variety AA	Irrigated	*	-	-
		1. Seed/Variety Prabhani Kranti	Irrigated	*	-	-
Turai	Kharif	1. Seed/Variety	Irrigated	*	-	-
Tinda	Kharif	1. Seed/Variety	Irrigated	*	-	-

* 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, sorghum, guar, etc and biofertilizer in time

Farmers' reactions on specific technologies

S. No	Feed Back
1	<ul style="list-style-type: none"> • Early vigorous growth and branching of Mustard var. NRC DR2, Ashirwad and GM3 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

Annual Progress Report 2009-2010

	branching, no. of siliqua, size of siliqua, & grain etc
2	• RZ 223 disease resistant like wilt, powdery mildew disease and higher production
3	• Raj 4037 Higher production of grain and good quality of seed in arid region
4	• RD 2052, RD 2503, RD 2552 Higher yield in rainfed condition, disease resistant variety

Extension and Training activities under FLD

Sl No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	04	3.10.2009*, 11.2.2010, 19.3.2010, 21.3.2010	514	*Director CAZRI, Dy. Dir. Ag. Pali and Head/ I/C, and Scientists CAZRI , Pali attended
2	Farmers Training	10	28.4.2009, 25.11.2009, 15.1.2010, 6.3.2010, 25.2.2010, 4.3.2010, 9.2.2010, 15.2.2010, 17.2.2010, 18.2.2010	396	KVK SMS and field functionaries
3	Media coverage	16	28.4.2009, 13.8.2009, 15.10.2009, 28.10.2009, 29.10.2009, 23.11.2009, 28.11.2009, 30.11.2009, 5.11.2009, 10.12.2009, 15.12.2009, 25.11.2009, 18.12.2009, 11.2.2010, 13.1.2010, 26.2.2010	-	

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	Remarks

Annual Progress Report 2009-2010

					<i>Demon.</i>	<i>Local check</i>		
Multi Nutrient Feed Block	Indigenous breed	05	50	Balance feeding of animals	-	-	20% milk increase	
Urea molasses	Indigenous breed	11	78	Increasing nutritive value of dry fodder	-	-	15% milk increase	
Balance feeding	Indigenous breed	35	35	Increasing milk production	-	-	30-35% milk increase	
Worm infestation	Indigenous breed	70	9782	Disease incidence decrease	-	-	70% animals are free from worms	

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

(iii) Other Enterprises

<i>Enterprise</i>	<i>Variety/ breed/ Species/ others</i>	<i>No. of farmers</i>	<i>No. of Units</i>	<i>Performance parameters / indicators</i>	<i>Data on parameter in relation to technology demonstrated</i>		<i>% change in the parameter</i>	<i>Remarks</i>
					<i>Demon</i>	<i>Local check</i>		
Vermi compost	<i>Assenia foetida</i>	10	30	Production of vermi-compost	30 quintal	12 quintal	83%	

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

A) ON Campus

<i>Thematic area</i>	<i>No. of courses</i>	<i>Participants</i>								
		<i>Others</i>			<i>SC/ST</i>			<i>Grand Total</i>		
		<i>Male</i>	<i>Female</i>	<i>Total</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	0	18	18	0	7	7	0	25	25
Cropping Systems	4	71	0	71	30	0	30	101	0	101
Water management	1	20	0	20	0	0	0	20	0	20
Seed production	1	16	0	16	9	0	9	25	0	25
Fodder production	1	14	0	14	6	0	6	20	0	20
II Horticulture										
a) Vegetable Crops										
Production technology of vegetables	1	23	0	23	9	0	9	32	0	32

Annual Progress Report 2009-2010

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery raising	1	32	0	32	9	0	9	41	0	41
b) Fruits										
Cultivation of Fruit	1	30	2	32	8	0	8	38	2	40
Processing and value addition	2	81	4	85	5	0	5	86	4	90
III Soil Health and Fertility Management										
Integrated Nutrient Management	1	16	0	16	10	0	10	26	0	26
Production and use of organic inputs										
Management of Problematic soils	1	28	0	28	2	0	2	30	0	30
IV Livestock Production and Management										
Dairy Management	1	13	0	13	2	0	2	15	0	15
Disease Management	2	18	0	18	5	0	5	23	0	23
Feed management										
Production of quality animal products										
V Home Science/Women empowerment										
Design and development of low/minimum cost diet	1	0	10	10	0	25	25	0	35	35
Storage loss minimization techniques										
Value addition	1	0	10	10	0	20	20	0	30	30
Income generation activities for empowerment of rural Women	3	0	20	20	0	70	70	0	90	90
Women and child care	1	0	5	5	0	20	20	0	25	25
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	1	15	0	15	9	0	9	24	0	24
VII Plant Protection										
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Mobilization of social capital	1	30	0	30	2	0	2	32	0	32
Entrepreneurial development of farmers/youths	2	50	0	50	5	0	5	55	0	55
XI Agro-forestry										
TOTAL	28	457	69	482	111	142	253	568	211	779
(B) RURAL YOUTH										
Production of organic inputs	1	0	30	30	0	0	0	0	30	30
Vermi-culture	1	25	0	25	5	0	5	30	0	30
TOTAL	2	25	30	55	5	0	5	30	30	60
Grand Total	30	482	99	537	116	147	258	548	241	839

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	60	5	65	10	4	14	70	9	79
Cropping Systems	2	60	5	65	10	4	14	70	9	79
Water management	4	115	5	120	4	2	6	119	7	126
Seed production	2	55	5	60	15	2	17	70	7	77
Integrated Crop Management	1	30	2	32	4	4	8	34	6	40
Fodder production	3	75	2	77	1	2	3	76	4	80
Production of organic inputs	1	26	4	30	4	4	8	30	8	38
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	01	12	0	12	0	0	0	12	0	12
Nursery raising	01	20	0	20	02	0	02	22	0	22
b) Fruits										
Training and Pruning	01	14	0	14	01	0	01	15	0	15
Layout and Management of Orchards	05	81	0	81	07	0	07	88	0	88
Cultivation of Fruit	01	18	0	18	02	0	02	20	0	20
Management of young plants/orchards	1	12	0	12	03	0	03	15	0	15
c) Spices										
Production and Management technology	01	15	0	15	02	0	02	17	0	17
III Soil Health and Fertility Management										
Soil fertility management	2	52	0	52	2	0	2	54	0	54
Soil and Water Conservation										
Integrated Nutrient Management	1	30	5	35	0	0	0	30	5	35
Production and use of organic inputs										
Management of Problematic soils	3	64	3	67	1	0	1	65	3	68
IV Livestock Production and Management										
Dairy Management	4	80	7	87	7	1	8	87	8	95
Disease Management	6	107	10	117	11	03	14	118	13	131
Feed management	4	85	16	101	14	05	19	99	30	129
Production of quality animal products	1	15	3	18	5	5	10	20	8	28
V Home Science/Women empowerment										
Designing and development for high nutrient efficiency diet	2	0	50	50	0	0	0	0	50	50

Annual Progress Report 2009-2010

Gender mainstreaming through SHGs	1	0	30	30	0	0	0	0	30	30
Storage loss minimization techniques										
Value addition	2	0	60	60	0	15	15	0	75	75
Location specific drudgery reduction technologies	1	0	0	0	0	30	30	0	30	30
Women and child care	1	0	0	0	0	35	35	0	35	35
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	2	50	5	55	2	5	7	52	12	64
VII Plant Protection										
Integrated Pest Management	1	30	5	35	20	0	20	50	5	55
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Leadership development	2	30	12	42	4	0	4	34	12	46
Group dynamics	2	44	8	52	10	2	12	54	10	64
Mobilization of social capital	2	40	6	46	15	0	15	55	6	61
Entrepreneurial development of farmers/youths	5	76	10	86	15	10	25	91	25	116
XI Agro-forestry										
Integrated Farming Systems	2	18	4	22	15	4	19	33	19	52
TOTAL	70	1314	262	1576	186	147	333	1500	409	1909
(B) RURAL YOUTH										
Integrated farming	1	25	0	25	10	0	10	35	0	35
Vermi-culture	1	30	5	35	10	5	15	40	10	50
Rural Crafts	1	27	3	30	10	0	10	37	3	40
TOTAL	3	82	8	80	30	5	35	112	13	125
Grand Total	73	1396	270	1656	216	152	368	1612	422	2034

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	60	23	83	10	4	14	70	27	97
Cropping Systems	6	131	5	136	40	4	44	171	9	180
Water management	5	135	5	140	4	2	6	139	7	146
Seed production	3	71	5	76	15	2	17	86	7	93
Fodder production	4	89	2	91	1	2	3	90	3	93
Production of organic inputs	1	26	4	30	4	4	8	30	8	38
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	1	12	0	12	0	0	0	12	0	12
Production techniques of vegetables	1	23	0	23	9	0	9	32	0	32
Nursery raising	2	52	0	52	11	0	11	63	0	63
b) Fruits										
Training and Pruning	1	14	0	14	01	0	01	15	0	15
Layout and Management of Orchards	5	81	0	81	07	0	07	88	0	88
Cultivation of Fruit	2	48	2	50	10	0	10	58	2	60
Management of young plants/orchards	1	12	0	12	03	0	03	15	0	15
Rejuvenation of old orchards	1	81	4	85	5	0	5	86	4	90
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
Production and Management technology	1	15	0	15	02	0	02	17	0	17
g) Medicinal and Aromatic Plants										
III Soil Health and Fertility Management										
Soil fertility management	2	52	0	52	2	0	2	54	0	54
Integrated Nutrient Management	2	46	5	51	0	0	0	46	5	51
Management of Problematic soils	4	92	3	95	1	0	1	93	3	96
IV Livestock Production and Management										
Dairy Management	5	93	7	100	9	1	10	102	8	110
Disease Management	8	125	10	135	16	3	19	141	13	154
Feed management	4	85	16	101	14	15	19	99	30	129
Production of quality animal products	1	15	3	18	5	5	10	20	8	28
V Home Science/Women empowerment										

Annual Progress Report 2009-2010

Design and development of low/minimum cost diet	3	0	60	60	0	25	25	0	85	85
Gender mainstreaming through SHGs	1	0	30	30	0	0	0	0	30	30
Value addition	3	0	70	70	0	35	35	0	105	105
Income generation activities for empowerment of rural Women	2	0	20	20	0	70	70	0	90	90
Women and child care	2	0	5	5	0	55	55	0	60	60
VI Agril. Engineering										
Repair and maintenance of farm machinery and implements	3	65	5	70	55	2	57	120	7	127
VII Plant Protection										
Integrated Pest Management	1	30	5	35	20	0	20	50	5	55
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Leadership development	2	30	12	42	4	0	4	34	12	46
Group dynamics	2	44	8	52	10	2	12	54	10	64
Mobilization of social capital	3	70	6	76	17	0	17	87	6	93
Entrepreneurial development of farmers/youths	7	126	10	136	20	10	30	146	25	171
XI Agro-forestry										
Integrated Farming Systems	2	18	4	22	15	4	19	33	19	52
TOTAL	98	1771	331	2068	297	289	586	2068	620	2688
(B) RURAL YOUTH										
Integrated farming	1	25	0	25	10	2	10	35	0	35
Production of organic inputs	1	0	30	30	0	0	0	0	30	30
Vermi-culture	2	55	5	60	15	5	20	70	10	80
Rural Crafts	1	27	3	30	10	0	10	37	3	40
TOTAL	5	107	38	135	35	5	40	142	43	185
Grand Total	103	1878	692	2203	332	294	626	2210	663	2873

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

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
10.5.2009	Farmers	Technique for training and pruning of ber	Horticulture	Arid horticulture	01	Off	14	0	14	1	0	1	15	0	15
17.6.2009	Farmers	Techniques for in situ budding of ber plant	Horticulture	Arid horticulture	01	Off	12	0	12	3	0	3	15	0	15
14.7.2009	Farmers	Package and practice of fruit plant	Horticulture	Arid horticulture	01	Off	18	0	18	2	0	2	20	0	20
11.8.2009	Farmers	Layout of fruit plant	Horticulture	Arid horticulture	01	Off	20	0	20	0	0	0	20	0	20
18.8.2009	Farmers	Layout of fruit plant	Horticulture	Arid horticulture	01	Off	15	0	15	0	0	0	15	0	15
26.8.2009	Farmers	Layout of fruit plant	Horticulture	Arid horticulture	01	Off	16	0	16	2	0	2	18	0	18
28.8.2009	Farmers	Layout of fruit plant	Horticulture	Arid horticulture	01	Off	12	0	12	3	0	3	15	0	15
20.9.2009	Farmers	Layout of fruit plant	Horticulture	Arid horticulture	01	Off	18	0	18	2	0	2	20	0	20
14.10.2009	Farmers	Improved package and practice of cumin production	Horticulture	Arid horticulture	01	Off	15	0	15	2	0	2	17	0	17
15.10.2009	Farmers	Techniques & tips of vegetable production	Horticulture	Arid horticulture	01	Off	20	0	20	2	0	2	22	0	22
19-21.5.2009	Farmers	Post harvest management, packaging and marketing of fruit and vegetable	Horticulture	Arid horticulture	03	On	50	4	54	1	0	1	51	4	55
27-29.5.2009	Farmers	Nursery management of fruit and vegetable	Horticulture	Arid horticulture	03	On	32	0	32	9	0	9	41	0	41
9-12.12.2009	Farmers	Modern technology of production for	Horticulture	Arid horticulture	03	On	30	2	32	8	0	8	38	2	40

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			
		horticulture crops (fruits)																
14-16.12.2009	Farmers	Processing, packaging, storage, export of horticulture crops	Horticulture	Arid horticulture	03	On	31	0	31	4	0	4	35	0	35			
17-19.12.2009	Farmers	Modern technology of production for horticulture crops (vegetables)	Horticulture	Arid horticulture	03	On	23	0	23	9	0	9	31	0	31			
3.11.2009	Farmers	Improved crop production of rabi	Agronomy	Clean cultivation and INM	01	On	19	0	19	6	0	6	25	0	25			
20.11.2009	Farmers	Improved package practices of rabi crops	Agronomy	Clean cultivation and INM	01	On	19	0	19	6	0	6	25	0	25			
10-11.12.2009	Farmers	Improved cultivation practices for oilseeds	Agronomy	Clean cultivation and INM	02	On	0	18	18	0	7	7	0	25	25			
16.12.2009	Farmers	Training on improved agricultural implements	Agronomy	Clean cultivation and INM	01	On	15	0	15	9	0	9	24	0	24			
30-31.12.2009	Farmers	Seed production technology	Agronomy	Clean cultivation and INM	02	On	16	0	16	9	0	9	25	0	25			
11-13.1.2010	Farmers	Improved cultivation practices for rabi crops	Agronomy	Clean cultivation and INM	03	On	12	0	12	14	0	14	26	0	26			
15-17.2.2010	Farmers	Improved package practices for fodder crops	Agronomy	Clean cultivation and INM	03	On	14	0	14	6	0	6	20	0	20			
18-20.2.2010	Farmers	Fertility management of crops	Agronomy	Clean cultivation and INM	03	On	16	0	16	10	0	10	26	0	26			

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
22-24.2.2010	Farmers	Improved package practices for rabi crops	Agronomy	Clean cultivation and INM	03	On	26	0	26	4	0	4	30	0	30
25-26.2.2010	Farmers	Water management of kharif crops	Agronomy	Clean cultivation and INM	02	On	20	0	20	0	0	0	20	0	20
4-6.3.2010	Farmers	Management of saline/sodic soil	Agronomy	Clean cultivation and INM	03	On	28	0	28	2	0	2	30	0	30
24.8.2009	Farmers	Weed management of kharif crops	Agronomy	Clean cultivation and INM	01	Off	23	0	23	0	0	0	23	0	23
28.8.2009	Farmers	Plant protection measures in kharif crops	Agronomy	Clean cultivation and INM	01	Off	18	0	18	5	0	5	23	0	23
30.9.2009	Farmers	Improved package practices of kharif cereals	Agronomy	Clean cultivation and INM	01	Off	16	0	16	3	0	3	19	0	19
9.10.2009	Farmers	Rainfed farming system	Agronomy	Clean cultivation and INM	01	Off	19	0	19	2	0	2	21	0	21
13.10.2009	Farmers	Agronomical practices for rabi cereals	Agronomy	Clean cultivation and INM	01	Off	14	0	14	4	0	4	18	0	18
29.10.2009	Farmers	Water management for rabi crops	Agronomy	Clean cultivation and INM	01	Off	20	0	20	4	0	4	24	0	24
24.11.2009	Farmers	Soil fertility management through composting	Agronomy	Clean cultivation and INM	01	Off	20	0	20	2	0	2	22	0	22
27.11.2009	Farmers	Fertility management through composting	Agronomy	Clean cultivation and INM	01	Off	13	0	13	7	0	7	20	0	20
2.12.2009	Farmers	Vermi composting	Agronomy	Clean cultivation	01	Off	19	0	19	4	0	4	23	0	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
19.11.2009	Farmers	Rain water harvesting technology for rainfed farming	Agronomy	and INM Clean cultivation and INM	01	Off	10	0	10	8	0	8	18	0	18
30.12.2009	Farmers	Rabi crop production technology	Agronomy	Clean cultivation and INM	01	Off	25	5	30	10	10	20	35	15	50
28.1.2010	Farmers	Fodder crop production technology in rainfed condition	Agronomy	Clean cultivation and INM	01	Off	35	5	40	10	0	10	45	5	50
11.3.2010	Farmers	Vermi-compost techniques and methods	Agronomy	Clean cultivation and INM	01	Off	30	10	40	10	10	20	40	20	60
18.3.2010	Farmers	Agronomical practices for fodder crops	Agronomy	Clean cultivation and INM	01	Off	30	4	34	15	0	15	45	4	49
19.3.2010	Farmers	Improved farm implements techniques	Agronomy	Clean cultivation and INM	01	Off	10	20	30	10	10	20	20	30	50
11-12.1.2010	LA	Management, prevention and first aid for dairy animals	Animal Science	Disease control	02	On	8	0	8	3	0	3	11	0	11
15-16.1.2010	LA	Dairy technology and first aid for dairy animals	Animal Science	Dairy Management	02	On	13	0	13	2	0	2	15	0	15
29-30.3.2010	LA	Vaccination programme in small and large ruminants	Animal Science	Disease control	02	On	10	0	10	2	0	2	12	0	12
5.5.2009	Farmers	Role of probiotic in ruminant for growth	Animal Science	Feed management	01	Off	15	0	15	0	0	0	15	0	15

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
11.5.2009	Farmers	Anoestrus in buffalo and its solutions	Animal Science	Disease control	01	Off	21	0	21	2	0	2	23	0	23
12.5.2009	Farmers	Vaccination in animals and its economical importance in production	Animal Science	Disease control	01	Off	17	0	17	1	0	1	18	0	18
9.6.2009	Farmers	Management of heat stroke in cross breed animals	Animal Science	Disease control	01	Off	15	0	15	1	0	1	16	0	16
11.6.2009	Farmers	First aid in animals	Animal Science	Disease control	01	Off	14	5	19	2	1	3	16	6	22
17.6.2009	Farmers	Artificial insemination in animals and its merits	Animal Science	Dairy management	01	Off	14	5	19	2	1	3	16	6	22
25.6.2009	Farmers	Quality improvement of roughage by urea treatment	Animal Science	Feed management	01	Off	17	9	26	2	0	2	19	9	28
22.8.2009	Farmers	Hygienic milk production	Animal Science	Dairy management	01	Off	16	0	16	0	0	0	16	0	16
4.9.2009	Farmers	Vaccination schedule against contagious diseases	Animal Science	Disease control	01	Off	14	5	19	4	2	6	18	7	25
8.9.2009	Farmers	Control measure of tympy	Animal Science	Disease control	01	Off	26	0	26	1	0	1	27	0	27
9.9.2009	Farmers	Management practices of sheep rearing	Animal Science	Dairy management	01	Off	30	0	30	2	0	2	32	0	32
1.10.2009	Farmers	Management practices	Animal	Dairy	01	Off	20	2	22	3	0	3	23	2	25

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		
		of goat rearing	Science	management													
28.10.2009	Farmers	Urea treatment of poor quality roughage	Animal Science	Feed management	01	Off	25	3	25	4	3	7	29	6	35		
9.1.2010	Farmers	Quality improvement of fodder by urea and molasses	Animal Science	Feed management	01	Off	28	4	32	8	2	10	36	6	42		
13.3.2010	Farmers	Production of milk by products at home	Animal Science	Production of quality animal products	01	Off	15	3	18	5	5	10	20	8	28		
24-25.11.2009	Farm woman	Preservation and value addition of fruit and vegetables	Home Science	Processing and value addition	02	On	0	0	0	0	0	25	0	25	25		
26-27.11.2009	Rural youth	Bandhej techniques	Home Science	Income generation	02	On	0	0	0	0	0	35	0	35	35		
28-29.11.2009	Farm woman	Processing and cooking	Home Science	PHT	02	On	0	8	8	0	0	30	0	30	38		
2-3.12.2009	Farm woman	Balance diet	Home Science	Nutrition management	02	On	0	5	5	0	0	33	0	33	38		
9-10.12.2009	Farm woman	Value addition	Home Science	Nutrition management	02	On	0	5	5	0	0	30	0	30	35		
30.10.2009	Farm woman	Nutrition management of rural child	Home Science	PHT	01	Off	0	20	20	0	0	10	0	10	30		
15.10.2009	Farm woman	Location specific drudgery reduction	Home Science	Labour management	01	Off	0	15	15	0	0	11	15	11	26		
16.10.2009	Farm woman	Processing and cooking	Home Science	PHT	01	Off	0	16	16	0	0	12	0	12	38		

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
28.10.2009	Farm woman	Preservation techniques of pickles	Home Science	PHT	01	Off	0	20	20	0	15	15	0	35	35
29.10.2009	Farm woman	Value addition of different arid vegetations	Home Science	Income generation	01	Off	0	20	20	0	25	25	0	45	45
24.8.2009	Farm woman	Bandhej techniques	Home Science	Income generation	01	Off	0	18	18	0	10	10	0	28	28
2.9.2009	Farm woman	Nutrition for mother and children	Home Science	Balance diet	01	Off	0	25	25	0	15	15	0	40	40
9.9.2009	Farm woman	Basic of food and nutritional diet	Home Science	Balance diet	01	Off	0	30	30	0	10	10	0	40	40
26-27.2.2010	Farmers	Govt. development programmes for benefit of rural community	Agriculture Extension	Rural development	02	On	28	0	28	4	0	4	32	0	32
4-6.3.2010	Farmers	Agricultural programmes for benefit of rural community.	Agriculture Extension	Rural development	03	On	25	0	25	02	0	02	27	0	27
8-10.3.2010	Farmers	Sources and procedure for purchase of quality agri-inputs	Agriculture Extension	Rural development	03	On	25	0	25	5	0	5	30	0	30
30.9.2009	Farmers	Mass media for information on rural development	Agriculture Extension	Information technology	01	Off	34	0	34	10	0	10	44	0	44
9.10.2009	Farmers	Source for purchase of quality agri-inputs	Agriculture Extension	Information sources	01	Off	16	4	20	0	0	0	16	4	20
14.10.2009	Farmers	Information on	Agriculture	Information	01	Off	14	4	18	0	0	0	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		
		improved agricultural technology using print media	Extension	technology													
15.10.2009	Farmers	Mass media for information on rural development	Agriculture Extension	Rural development	01	Off	12	0	12	03	0	03	12	03	15		
27.10.2009	Farmers	Sources and procedures of quality agro - inputs	Agriculture Extension	Information sources	01	Off	11	0	11	05	0	05	11	05	16		
29.10.2009	Farmers	Mass media for information on improved agrotechnique	Agriculture Extension	Rural development	01	Off	34	0	34	10	0	10	34	10	44		
15.12.2009	Farmers	Agri based enterprises for additional income generation	Agriculture Extension	Entrepreneurship	01	Off	13	0	13	07	0	07	13	07	20		
28.1.2010	Farmers	Development programmes for self employment	Agriculture Extension	Employment generation	01	Off	19	0	19	03	0	03	19	03	22		
9.2.2010	Farmers	Government programmes for benefit of rural community	Agriculture Extension	Rural community	01	Off	12	0	12	13	0	13	12	13	25		
11.3.2010	Farmers	Modern information technology – benefit for farmers	Agriculture Extension	ICT	01	Off	16	0	16	10	4	14	26	4	30		
19.3.2010	Rural youth	Role of new agricultural extension programmes for rural youth	Agriculture Extension	Youth development	01	Off	27	4	31	4	6	10	31	10	41		

(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		

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

S. No	Title	Thematic area	Duration (days)	Client PF/ RY/EF	No. of courses	No. of Participants						Sponsoring Agency	
						Male		Female		Total			
						Others	SC/ST	Others	SC/ST	Others	SC/ST		Total
1.	Production technology of vegetables	Cultivation of vegetables	03	PF/ FW	01	35	0	0	0	35	0	35	NHM
2.	Production technology of fruits	Cultivation of fruits	03	PF/ FW	01	35	15	5	2	40	17	47	NHM
3.	Propagation of fruit and vegetable in arid and semi-arid regions	Cultivation of fruits and vegetables	03	PF/ FW	01	30	10	0	2	30	12	42	NHM
4.	Rabi crop production technology	Cereal cultivation	02	FW	01	0	0	25	5	25	5	30	DOA
5.	Vermi-compost methods and techniques	Organic farming	02	PF/ FW	01	20	5	0	0	20	5	25	DOA

6.	Improved crop management techniques in Rabi	Crop production	03	PF	01	30	5	0	0	30	5	35	ATMA
7.	Weed management in rabi crops	Weed management	03	PF	01	20	5	0	0	20	5	25	ATMA
8.	Organic farming in rainfed conditions	Organic farming	03	PF	01	20	5	0	0	20	5	25	ATMA
9.	Technology of improved farm implements	Implements	03	PF	01	25	5	0	0	25	5	30	ATMA
10.	Government programmes for rural youths	Rural developments	03	RY	01	25	5	0	0	25	5	30	ATMA
11.	Integrated nutrient management	INM	03	PF/RY	01	28	5	0	0	28	5	33	ATMA
12.	Production technology of seed spices in arid zone	Crop production	03	PF/RY	01	25	2	3	2	28	4	32	ATMA
13.	Organic farming practices	Organic farming	03	PF/RY/FW	01	35	6	4	2	39	8	47	ATMA
14.	Post harvest technology of field crops	PHT	03	PF/RY/FW	01	28	2	4	1	32	3	35	ATMA
Total					14	356	70	41	14	397	84	471	

3.4. Extension Activities (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field day	3.10.2009, 11.2.2010, 19.3.2010, 21.3.2010	4	596	27	623	04	03	07	04	-	04	604	30	634
2.	Kisan Ghosthi	14.10.2009, 15.10.2009, 19.12.2009, 30.12.2009, 28.1.2010, 27.2.2010, 6.3.2010, 8.3.2010, 9.3.2010, 11.3.2010, 11.3.2010	11	703	48	751	18	13	31	05	-	05	726	61	787

Annual Progress Report 2009-2010

3.	Exhibition	28.11.2009, 16.1.2010	2	150	50	200	15	10	25	20	11	31	185	71	256
4.	Film Show	13.1.2010, 23.2.2010, 9.3.2010, 17.12.2009, 24.11.2009, 27.11.2009, 30.11.2009, 4.11.2009, 18.12.2009, 4.12.2009	10	276	20	296	36	70	106	-	-	-	312	90	402
5.	Method Demonstrations	Seed treatment	10	35	12	47	40	25	65	-	-	-	75	37	112
		Vegetable	5	25	2	27	4	4	8	-	-	-	29	6	35
		Fruit	10	56	10	66	18	2	20	-	-	-	74	12	86
		Balance feeding	35	21	11	32	2	1	3	-	-	-	23	12	35
		De worming	70	54	5	59	7	4	11	-	-	-	61	9	70
		Quality increase of roughage by urea treatment	11	5	4	9	1	1	2	-	-	-	6	5	11
6.	Farmers Seminar	-													
7.	Workshop	-													
8.	Group meetings	Adoption of new technologies	8	180	35	215	26	11	37	4	-	4	210	46	256
9.	Lectures delivered as resource persons		66	245	35	280	96	15	111	10	-	10	351	50	401
10.	Newspaper coverage	-	15	-	-	-	-	-	-	-	-	-	-	-	-
11.	Radio talks	-	5	-	-	-	-	-	-	-	-	-	-	-	-
12.	TV talks	-	3	-	-	-	-	-	-	-	-	-	-	-	-
13.	Popular articles	-	11	-	-	-	-	-	-	-	-	-	-	-	-
14.	Extension Literature	-	10	-	-	-	-	-	-	-	-	-	-	-	-
15.	Advisory Services	-	16	-	-	-	-	-	-	-	-	-	-	-	-
16.	Scientific visit to farmers field	-	30	-	-	-	-	-	-	-	-	-	-	-	-
17.	Farmers visit to KVK	Technology innovation	20	876	86	962	196	42	238	76	5	81	1148	133	1281
18.	Diagnostic visits	Problem diagnosis and remedy	10	88	10	98	20	9	29	5	-	5	113	19	132
19.	Exposure visits	Technology development	4	172	-	172	46	-	46	-	-	-	218	-	218
20.	Ex-trainees Sammelán	Innovation	5	56	13	69	15	10	25	-	-	-	71	23	94
21.	Soil health Camp	Technology innovation	2	75	16	91	15	4	19	-	-	-	90	20	110
22.	Animal Health Camp		2	25	12	37	28	-	28	-	-	-	53	12	65
23.	Self Help Group Conveners meetings	Entrepreneurship development	4	135	35	170	30	10	40	-	-	-	165	45	210

Annual Progress Report 2009-2010

24.	Mahila Mandals Conveners meetings	-	2	-	58	58	-	15	15	-	-	-	-	-	73	73
25.	Celebration of important days (specify)	World Environment Day Science Day World Woman Day	3	165	25	190	25	10	35	-	-	-	190	35	225	
26.	Farmers tour	-	1	22	0	22	-	-	-	-	-	-	22	0	22	
27.	Scientist farmers interactions	Technology innovation	1	22	-	22	2	-	2	10	-	10	34	-	34	
	Grand Total		284	3912	524	3398	634	259	803	134	16	150	4760	789	5569	

3.5 Production and supply of Technological products

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (kg.)	Value (Rs.)	Provided to No. of Farmers
OILSEEDS					
1.	Sesame	RT 127	315	17325	122
VEGETABLES					
1.	Bottle Gourd	Thar Samridhi	5	500	10
2.	Water melon	Sugar baby	10	2400	10
3.	Musk melon	D. Madhu	5	750	10
4.	Kachari	AHK 19	5	250	15
5.	Snap melon	AHK 82	5	250	15
6.	Tinda	AHRM 01	5	350	10
7.	Okra	AA	150	1250	10
		P K	25	1760	10
OTHERS (Specify)					
1.	Guar	RGM 112	70	1400	19
2.	Cumin	RZ 223	47	11750	10
3.	Dhaman	CC	25	2750	1
4.	Okra	AA	16	1760	1
5.	Cumin	RZ 223	240	-	Not sold
6.	Wheat	Raj 4037	60	-	Not sold
7.	Barley	RD 2552, 2025, 2503	120	-	Not sold
8.	Mustard	NRC DR2/Ashirwad	20	-	Not sold
9.	Gram	Pratap	05	-	Not sold
10.	Azwain	AA1	20	-	Not sold
11.	Saunf	RF101	25	-	Not sold
12.	Methi	RMT 305	325	-	Not sold
13.	Worms	<i>Assinia foetida</i>	4 unit	1500	04

SUMMARY

Sl. No.	Major group/class	Quantity (kg)	Value (Rs.)	Provided to No. of Farmers
1	OILSEEDS	315	17325	122
2	VEGETABLES	210	7510	90
3	OTHERS	973+ 5 units	19160	35
TOTAL		1498+ 4 units	43995	247

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Ber	Gola, Sev	2750	13750	10

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	2750	13750	10
	TOTAL	2750	13750	10

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	Number of copies
Research papers			
<i>a. Full paper</i>			
	Effect of Nitrogen, Phosphorus and Zinc fertilization on soil nutrients status and yield of ber (<i>Zizyphus mauritiana</i> Lamk) cv Gola in arid and semi- arid region. Environment and Ecology 28 (IA):328-331,2010	Hari Dayal, D. Singh, G.Lal and S.K. Singh (2010)	
	Traditional wisdom practices among rural adolescent girls regarding selected health care practices. International Journal of Family and Home Science. Vol. 5(1&2): p.p. 20-23	Dudi, A., Rajsingh, A. and Meena, M.L. (2009).	-
	Economic contribution of improved buffalo production practices. Indian Journal of Social Research. Vol. 51(2&3): p.p. 70-74.	Meena, M.L., Sharma, N. K. and Dudi, A. (2009).	-
	Multi nutrient feed block technology – a success story of Rajasthan, Agriculture Ext. Review. April-June, 2009. XXI(2):12-15.	Dheeraj Singh, M.K. Choudhary, H. Dayal, M.L. Meena, S. Kachhawaha and A. Dudi (2009)	-
	Impact of FLD in knowledge of improved mustard production technology. Indian J. of Ext. Ed. 3(2&3):19-22.	M.L. Meena, Dheeraj Singh and N.K. Sharma (2009)	-
	Small farms, a way to prosperity: A case study of a small farmer from Pali, India. 111 EAAE-IAAE Seminar “Small Farms: decline or persistence”, 26-27 June, 2009, University of Kent, Canterbury, UK.	Dheeraj Singh, M.L. Meena, M. Choudhary, H. Dayal and A. Dudi	
	Impact of FLD in adoption of improved mustard production technology. IJEE. Vol 7(2&3): 16-17.	M.L. Meena, N.K. Sharma and Dheeraj Singh (2009)	
	Indian rural technology of front line demonstrations enhancing agricultural	Dheeraj Singh, M.L. Meena, M. Choudhary, H.	

Annual Progress Report 2009-2010

	productivity under rainfed conditions of Rajasthan. <i>Indian Journal of Social Research</i> .	Dayal and A. Dudi (2010).	
	Managerial practices and reproductive performance of buffaloes in rural arid region of Rajasthan. In: Proceedings of International Buffalo Conference “Optimizing buffalo productivity through conventional and novel technology”, 1-4 February, 2010, New Delhi. 2:102.	A.C. Mathur, Gautam Dutt, N.V. Patil, B.K. Mathur and Subhash Kachhawaha	
Total	9		
b. Abstracts			
	Ensuring nutritional and health security by utilization of under utilized fruit of Indian arid zone in fresh and processed form. International Conference on Horticulture “Horticultural for livelihood security and economic growth” organized by PNASF, Bangalore. November 9-12, 2009. Pp. 248	D. Singh, M. Choudhary, H. Dayal, M.L. Meena and A. Dudi	
	Economic Contribution of Improved Sheep Production Practices. National Seminar on Stress Management of Small Ruminants: Products and Process, CSWRI, Avikanagar. January 29-31, 2010. Pp. 144	M.L. Meena and Dheeraj Singh	
	Sheep farming system: An approach for livelihood security in arid zones of Rajasthan. National Seminar on Stress Management in Small Ruminant Production and Product Processing. January 29-31, 2010. Pp. 145.	Dheeraj Singh, M.L. Meena and M.K. Choudhary	
	Impact assessment of farmers’ training on knowledge of sheep husbandry: A logistic regression analysis. National Seminar on Stress Management in Small Ruminant Production and Product Processing. January 29-31, 2010. Pp. 145.	R.K. Meena, M.L. Meena and P.K. Tomar	
	Processing and value addition to under utilized fruits of Rajasthan. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 310	Dheeraj Singh, M.K Choudhary, H. Dayal, M.L. Meena and A. Dudi	
	Estimation of front line demonstration on the yield of mustard in arid zone of Rajasthan. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 324	M.K. Choudhary, M.L. Meena, H. Dayal and D. Singh	
	Farmers’ training for sustainable agriculture development – Adoption of new technologies. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 325	D. Singh, M.K. Mandape, M.L. Meena and M.K. Choudhary	

	An approach for empowerment of women through skill development; Self Help Groups. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 340	Aishwarya Dudi, A.R. Singh and M.L. Meena	
	Prospects for training on promotion of value added products (VAP) among farm women. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 342	M.L. Meena and D. Singh	
	Role of Women empowerment; rural prosperity. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 342	Aishwarya Dudi, A.R. Singh and M.L. Meena	
	Epizootiology of sarcoptic mange in calves. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 248.	Subhash Kachhawaha	
	Influence of nutrition on production of ber (<i>Zizyphus mauritiana</i> Lamk) cv Gola under arid and semi-arid conditions. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 83.	Hari Dayal, G.Lal, D.Singh and M.K. Chaudhary	
	Need based technological interventions and their effectiveness in improving the crop productivity in Pali district of Rajasthan. International Conference on Nurturing Arid Zone for People and the Environment; Issues and Agenda for the 21 st Century organized by CAZRI, Jodhpur. November 24-28, 2009. Pp. 327.	B.L. Jangid, M.K. Chaudhary, S.S. Rao, Khem Chand, Hari Dayal and P.P. Rohilla.	
	Epidemiology, treatment and mineral status with dermatophytosis in calves. Proceedings of National Symposium on "Recent developments in diagnostic and therapeutic approaches for economically important disease of livestock and companion animals" and 28 th Indian Society for Veterinary Medicine, Annual Convention. 17-19 February, 2010.	Subhash Kachhawaha, R.K. Tanwar, Alok Mathur and B.K. Mathur	
Total	14		
c. Book Chapters			
	Disease management and control in ruminants in arid region. In: Feeding and management of livestock during drought and scarcity. Scientific Publishers, Jodhpur (2010). Pp. 317-327.	Subhash Kachhawaha, N.V. Patil, A.K. Gahlot, B.K. Mathur and	

Annual Progress Report 2009-2010

		A.C. Mathur	
Total	1		
Technical reports			
Popular articles	षुष्क क्षेत्रीय फलों की उन्नत कृषि तकनीक, राजस्थान खेती प्रताप, 5 (9): 10-19.	हरिदयाल और अजय मारु (2009).	-
	षुष्क क्षेत्र का वरदान बेर। विष्क कृषि संचार। अप्रैल 2009।	हरिदयाल, गोपाल लाल, वाई.पी. सिंह	
	बागवानी ने चमका दी किसान परिवार की किस्मत। षरद कृषि। नवम्बर 2009: 23.	के.वी.के. पाली	-
	बकरियों के बच्चों का रख-रखाव। राजस्थान खेती प्रताप : 24-25.	सुभाष कच्छावाहा, धीरज सिंह, महेंद्र चौधरी, एष्वर्या डूडी और अजय मारु (2010)	
Total	4		
Leaflets/folders	फलदार पेड एवं मौसम किसान जागरुकता कार्यक्रम मौसम आधारित किसान सेवा केन्द्रीय षुष्क क्षेत्र अनुसंधान संस्थान, जोधपुर एवं भारत मौसम विज्ञान विभाग, पुणे 2010 10.12	पी. आर. मेघवाल एवं हरिदयाल	
Total	1		
Posters	सूखे चारे को यूरिया घोल से उपचारित कर चारे की पौष्टिकता बढ़ाना		
	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		
Total	12		

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1.	VCD	Farm Sons Cutter/Crop cutter	10

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

Name : Sh. Ashok Parihar
Village : Mandli
Education : 8th pass
Income before intervention : Rs. 3000 – 3500 per month
Income after intervention : Rs. 12500 – 18500 per month
Intervention : Olericulture, vermi- composting and fruit production
Motivation : KVK trainings
Impact : Income generate, socio -economic status



Name : Sh. Balvinder Singh
Village : Pali
Education : Secondary
Income before intervention : Rs. 5000 – 8000 per month
Income after intervention : Rs. 10000 – 12000 per month
Intervention : Olericulture and crop cultivation
Motivation : KVK Vocational training
Impact : Income generate, socio -economic status and distribution of improved seed to other farmers.



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

3.10 Indicate the specific training need analysis tools/methodology followed for

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

3.11 Field activities

- i. Number of villages adopted : 10
- ii. No. of farm families selected : 175
- iii. No. of survey/PRA conducted : Village Khetawas

4.0 IMPACT

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

<i>Name of specific technology/skill transferred</i>	<i>No. of participants</i>	<i>% of adoption</i>	<i>Change in income (Rs.)</i>	
			<i>Before (Rs./Unit)</i>	<i>After (Rs./Unit)</i>
Multi-nutrient feed block/ Mixture preparation	30	45	Nil	4000 per month
Urea molasses	15	42	Nil	2500 per month
Vermi-composting unit	35	55	Nil	4200 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	
Training on improved agricultural implements	24	34	66	32
Modern technology of production of horticulture crops (fruits)	50	31	58	27
Processing, packaging, storage and export of horticulture crops	50	30	66	36
Rabi crop production technology	20	32	66	34
Water management for crops	19	35	64	21
Production technology of fodder crops	30	26	48	22
Nursery management of fruits and vegetables	41	30	62	32
Awareness training about Birdflue for village representatives	35	29	62	33
Production technology of vegetables	46	38.0	72.2	34.2
Production technology of fruits	50	33.3	65.0	31.7
Propagation of fruit and vegetable in arid and semi arid regions	48	41.2	67.4	26.2
Rabi crop production technology	14	30	64	34
Bandhej technique	30	18.4	61.2	42.8
Preservation and value addition of fruit and vegetables	28	32.5	72.2	39.7
Methods of Pickles	35	27.2	63.3	36.1
Vocational training on Papad making	30	28.0	77.2	49.2
Balance diet of farm woman	25	22.0	66.2	44.2

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

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

<i>S. No.</i>	<i>Project Title</i>	<i>Fund (Rs.)</i>
	<i>ATMA</i>	
1	Field Days / Kisan Goshthi	45,000.00
2	Organizing demonstration for fodder / Allied sector	2,00,000.00
3	Development of technology package on electronic media (Success story)	20,000.00
4	Farm School	2,00,000.00
5	Assessment, refinement, validation and adoption of FLD and other short term researchable issues through KVKs	40,000.00
	<i>NHM</i>	
6	Model Nursery at KVK farm	18,00,000.00
7	Seed production program of arid and semi arid vegetables at KVK Farm, Pali.	1,00,000.00
8	Seed grading unit	25,49,000.00
9	Training (@ Rs. 45000 per training)	1,80,000.00
10	Seed production program of arid and semi arid vegetables at KVK Farm, Pali	1,50,000.00
11	Establishment of Automatic Weather Station for disease forecasting Unit at KVK, Pali	3,88,000.00
12	Dissemination of production and protection technologies of fruit and vegetable crops through front line demonstrations at KVK and farmer field	17,00,000.00
	<i>NABARD</i>	
13	Education tours for farmers at Udaipur and Ajmer	63,000.00
14	Rainwater harvesting structure at KVK, Pali	10,00,000
	Grand Total	84,35,000.00

5.3 Details of linkage with ATMA

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

<i>S. No.</i>	<i>Programme</i>	<i>Nature of linkage</i>	<i>Remarks</i>
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

<i>S. No.</i>	<i>Programme</i>	<i>Nature of linkage</i>	<i>Constraints if any</i>
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	

5.5 Nature of linkage with NABARD

<i>S. No.</i>	<i>Programme</i>	<i>Nature of linkage</i>	<i>Remarks</i>
1.	Farmers tour	Exposure visit of farmers	-
2.	Rain water harvesting	Water conservation	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

<i>Sl. No.</i>	<i>Demo Unit</i>	<i>Year of estt.</i>	<i>Area</i>	<i>Details of production</i>			<i>Amount (Rs.)</i>		<i>Remarks</i>
				<i>Variety</i>	<i>Produce</i>	<i>Qty.</i>	<i>Cost of inputs</i>	<i>Gross income</i>	
1.	Ber	1998	0.7	Gola, Sev	Auctioned	-	650	6100	-
2.	Lemon	1999	0.5	Kagji lime	-	-	-	-	-
3.	Date palm	1982	0.5	Khadrabi & samran	-	-	-	-	-
4.	Pomegranate	1999	0.2	Jalore seedless	-	-	-	-	-
5.	Nursery	2008	0.25	Ber	Seedlings (root stock)	2000	2800	-	-

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.	Cost of inputs	Gross income	
Cereals									
Barley									
Wheat									
Pulses									
Green gram	19.2.2009	-	5	RMG 344	-	-	6000	*	-
Oilseeds									
Sesame	18.7.2009	-	15	RT 127, RT 125	-	-	6600	*	
Fibers									
Spices & Plantation crops									
Cumin	24.11.2009	Last week of March	1.0	RZ 223	Seed	100	1200		Not sold
Fennel									
Ajvain									
Floriculture									
Fruits									
Vegetables									
Okra	5.3.09	-	1	Arka Anamika & Parbhani Kranti	Seed	-	2600		16 kg sold to 4 farmers
Bottle Gourd	17.3.09	-	0.5	Pusa Navbahar	Seed	-	1080		During reporting period seed was not collected
Others (specify)									
Guar	19.7.2009						1584	*	70 kg sold to 19 farmers
Water Melon	19.3.09	-	0.5	Sugar Baby	Seed	-	135		During reporting period seed was not collected
Musk Melon	16.3.09	-	0.5	D. Madhu	Seed	-	100		During reporting period seed was not

Annual Progress Report 2009-2010

									collected
Dhencha	20.7.2009	-	0.25	-	-	-	-	*	-
Kachra	20.3.2009	-	-	-	-	-	-	*	-
Kachri	18.3.2009	-	-	-	-	-	-	*	-
Cluster bean (M83)	25.6.2009	-	-	-	-	-	-	*	-

* No yield due to drought situation.

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
-	-	-	-	-	-

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-

6.5 Utilization of hostel facilities

Accommodation available (No. of beds): 20* (3 dormitory capacity 30 each)

<i>Months</i>	<i>Title of the training course/Purpose of stay</i>	<i>No. of trainees stayed</i>	<i>Trainee days (days stayed)</i>	<i>Reason for short fall (if any)</i>
April 2009	Balance feed for improved health and productivity of milch animals	23	01	
May 2009	Post harvest management packaging and marketing of fruits and vegetables	50	03	
	Nursery management of fruits and vegetables	41	03	
June 2009	Awareness training about Birdflue for village representatives	35	03	
June 2009	Dairy farming technology training for woman	84	01	
August 2009	Agricultural programmes for benefit of rural community.	22	02	
Sept. 2009		-	-	
Oct. 2009		-	-	
Nov. 2009	Improved crop production of rabi oilseed	25	01	
	Improved crop production of rabi cereals	25	01	
Dec.2009	Improved package practices of rabi oilseed	23	02	
	Training on improved agricultural implements	24	02	
	Fertility management of soil	24	02	
	Modern technology of production of horticulture crops (fruits)	50	03	
	Processing, packaging, storage and export of horticulture crops	50	03	
	Modern technology of horticulture crops (vegetables)	50	03	
Jan. 2010	Improved production technology of rabi crops	26	03	
Feb. 2010	Rabi crop production technology	20	03	
	Fertility management of crops	26	03	
	Rabi crop production technology	30	03	
	Water management for crops	19	02	
March 2010	Production technology of fodder crops	30	03	
	Farmers scientist interaction	25	02	
Total		611		

* beds are made available through Pvt. Tent Agency

7.0 FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

<i>Bank account</i>	<i>Name of the bank</i>	<i>Location</i>	<i>Account Number</i>
With Host Institute			
With KVK			

7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs)

<i>Item</i>	<i>Released by ICAR</i>		<i>Expenditure</i>		<i>Unspent balance as on 1st April 2010</i>
	<i>Kharif 2009-10</i>	<i>Rabi 2009-10</i>	<i>Kharif 2009-10</i>	<i>Rabi 2009-10</i>	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

<i>Item</i>	<i>Released by ICAR</i>		<i>Expenditure</i>		<i>Unspent balance as on 1st April 2010</i>
	<i>Kharif 2009-10</i>	<i>Rabi 2009-10</i>	<i>Kharif 2009-10</i>	<i>Rabi 2009-10</i>	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs)

<i>Item</i>	<i>Released by ICAR</i>	<i>Expenditure</i>	<i>Unspent balance as on 1st April 2010</i>
	<i>Kharif 2009-10</i>	<i>Kharif 2009-10</i>	
Inputs			
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2008-09 and 2009-10 (upto April 2010) (year-wise separately) (current year and previous year)

Year 2008-2009

<i>S. No.</i>	<i>Particulars</i>	<i>Sanctioned</i>	<i>Released</i>	<i>Expenditure</i>
A. Recurring Contingencies				
1	Pay & Allowances	35,00,000		35,41,118
2	Traveling allowances	1,00,000		1,08,424
3	Contingencies			
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1,30,000		1,29,547
<i>B</i>	POL, repair of vehicles, tractor and equipments	80,000		79,752
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	65,000		19,410
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75,000		64,608
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1,05,000		98,660
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	55,000		34,121
<i>G</i>	Training of extension functionaries	40,000		15,484
<i>H</i>	Maintenance of buildings	20,000		19,745
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	0		0
<i>J</i>	Library	0		0
TOTAL (A)		41,70,000	-	41,10,869
B. Non-Recurring Contingencies				
1	Works	0		0
2	Equipments including SWTL & Furniture	0		0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0		0
4	Library (Purchase of assets like books & journals)	0		0
TOTAL (B)				
C. REVOLVING FUND		0		0
GRAND TOTAL (A+B+C)		41,70,000	-	41,10,869

Annual Progress Report 2009-2010

Year 2009-2010 (1.4.2009 – 31.3.2010)

<i>S. No.</i>	<i>Particulars</i>	<i>Sanctioned</i>	<i>Released</i>	<i>Expenditure</i>
A. Recurring Contingencies				
1	Pay & Allowances	62,00,000		56,62,991
2	Traveling allowances	1,00,000		81,963
3	Contingencies	6,50,000		6,00,890
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1,60,000		1,59,500
<i>B</i>	POL, repair of vehicles, tractor and equipments	95,000		89,127
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	80,000		65,000
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	80,000		79,302
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	95,000		93,686
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65,000		63,522
<i>G</i>	Training of extension functionaries	50,000		
<i>H</i>	Maintenance of buildings	25,000		
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory			
<i>J</i>	Library			
TOTAL (A)		69,50,000		93,45,844
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	90,000	-	82,830
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	10,000	-	-
TOTAL (B)		1,00,000	-	82,830
C. REVOLVING FUND			-	-
GRAND TOTAL (A+B+C)		70,50,000	-	64,28,674

7.5 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 2007 to March 2008	245881	1323	8854	235704
April 2008 to March 2009	235704	20000	150983	104721
April 2009 to March 2010	104721	3720	110454	(-) 2013

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

8.1 Constraints

- (a) Administrative
 - 1. Post of one SMS is vacant since the year 1999.
 - 2. Post of administrative staff viz. Clerk and driver are also vacant since the year 1999.
- (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