Annexure-I

Summary Report

April 2011 – March 2012

KRISHI VIGYAN KENDRA
CAZRI, PALI-MARWAR 306 401

Summary of Annual Progress of KVK, Pali 2011-12

STAFF POSITION

KVK	PC			SMS			PA			ADMN			AX			SUPP			TOTAL		
	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V	S	F	V
	1	1	0	6	4	2	3	3	0	2	1	1	2	1	1	2	2	0	16	12	4

S- Sanctioned F- Filled V- Vacant

REVOLVING FUND

KVK	Opening Balance on 1.4.11 (Rs. in lakhs)	Revenue Generated (Rs. in lakhs)	Closing Balance on 31.3.12 (Rs. in lakhs)
CAZRI KVK, Pali	0.39521	3.23276	1.23276*

* Final bills not adjusted with Headquarter.

SCIENTIFIC ADVISORY COMMITTEE

KVK	No. of meetings conducted	Date of meeting
CAZRI KVK, Pali	1	09.09.2011

ACTIVITIES OF KVK

TECHNOLOGY ASSESSMENT AND REFINEMENT

Details of technologies assessed and refined

A. Technologies assessed**

Sl. No.	*Enterprise*	*Crop/Animal/ Species*	*Name of the technology***	*Thematic Area*
1	Cereals	Wheat	High yielding variety for saline/sodic conditions (RAJ 4037)	Irrigated, Varietal evaluation
		Sorghum	High yielding variety (CSV 15)	Rainfed, Varietal evaluation
2	Oil seed	Mustard	High yielding variety for rainfed condition (Maya)	Irrigated, Varietal evaluation
3	Spices	Cumin	High yielding variety for rainfed condition (RZ 223)	Integrated pest management

B. Technologies refined**

Sl. No.	*Category*	*Crop/ Enterprise*	*Name of the technology***	*Thematic Area*
1	Fruit	Ber	Rainwater harvesting (Circular catchment) + nutrient management through FYM (50 kg)+ Vermi-compost (10 kg) per plant	Rainfed, INM

Abstract on the number of technologies **assessed** in respect of crops/enterprises

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

Abstract on the number of technologies **refined** in respect of crops/

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

PERFORMANCE OF IMPORTANT TECHNOLOGIES

Trial 1: Wheat

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

Trial 2: Mustard

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

Trial 3: Cumin

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

Trial 4: Gram

1.	**Title**	**:**	Low productivity of Gram
2.	**Problem diagnose/defined**	**:**	Low yield due to low seed rate
3.	**Details of technologies selected for assessment/ refinement**	**:**	Recommended seed rate for higher yield
4.	**Source of technology**	**:**	SAUs
5.	**Production system thematic area**	**:**	Unirrigated and recommended seed rate
6.	**Performance of the Technology with performance indicators**	**:**	Higher yield than farmers'practice
7.	**Final recommendation for micro level situation**	**:**	Higher production
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	Good quality seed and higher production

Trial 5: Sorghum

1.	**Title**	**:**	Improving quality and production of fodder Sorghum
2.	**Problem diagnose/defined**	**:**	Low yield
3.	**Details of technologies selected for assessment/ refinement**	**:**	High yielding variety (CSV 15)
4.	**Source of technology**	**:**	NRC for Sorghum, Hyderabad
5.	**Production system thematic area**	**:**	Rainfed, Varietal evaluation
6.	**Performance of the Technology with performance indicators**	**:**	Higher fodder yield than farmers' practice
7.	**Final recommendation for micro level situation**	**:**	In progress
8.	**Constraints identified and feedback for research**	**:**	In progress
9.	**Process of farmers participation and their reaction**	**:**	In progress

Trial 6: 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.	**Performance of the Technology with performance indicators**	**:**	Good quality fruits and high production
7.	**Final recommendation for micro level situation**	**:**	Good quality fruits and insect free
8.	**Constraints identified and feedback for research**	**:**	Nil
9.	**Process of farmers participation and their reaction**	**:**	High production of fruits

Trial 7: ***LOW MILK YIELD IN BOVINE***

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

Name of technology: Varietal evaluation

Technological Options	***No. of Trials***	***Performance on different parameters***		***Result and Recommendation***	***Acceptability in existing farming system***
		BC Ratio	***Yield (kg/ha)***		
Wheat	3	2.9	2850	Recommended for cultivation	Yes
Barley	3	2.7	2750		Yes
Fodder Jowar	3	2.3	6500		Yes

Technologies refined

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

FRONTLINE DEMONSTRATIONS

Summary

Crop/enterprise	*No. of demonstrations*	*Area (ha)*
Oilseeds	20	12.5
Pulses	54	25
Cereals	102	40
Spices	30	15
Vegetables	45	5.5
Total	**251**	**98**

OILSEEDS

Crop	*Season*	*Name of technology*	*No. of farmers*	*Area (ha)*	*Performance of technology on different parameters (q/ha)*		*Result*
					1		
					Demonstration	*Local Check*	
Mustard (Maya)	Rabi	Varietal evaluation	5	2.5	16.5	13.0	26.92
Til (RT 346)	Kharif	Varietal evaluation	15	10	6.1	4.8	27.08

PULSES

Crop	*Season*	*Name of techno-logy*	*No. of farmers*	*Area (ha)*	*Performance of technology on different parameters (q/ha)*		*Result*
					1		
					Demonstration	*Local Check*	
Moong (RMG 344)	Kharif	Varietal evaluation	44	15	6.5	4.9	32.65
Cluster bean (RGM 1017)	Kharif	Varietal evaluation	10	10	8.2	6.5	26.15

CEREALS, HORTICULTURE AND OTHER CROPS

Crop	*Season*	*Name of technology*	*No. of farmers*	*Area (ha)*	*Performance of technology on different parameters (q/ha)*		*Result*
					1		
					Demonstration	*Local Check*	
Wheat	Rabi	Varietal evaluation	30	15	39.46	32.5	21.4
Barley (RD2052)	Rabi	Varietal evaluation	30	15	34.93	28.5	22.56
Sorghum (CSV 15)	Kharif	Varietal evaluation	42	10	600.00	450.0	33.3
Cumin (RZ 223)	Rabi	Varietal evaluation	30	15	7.56	5.8	30.34
Kachra (AHS 82)	Kharif	Varietal seed	15	2.0	190.0	160.0	18.75
Kachri (AHK 119)	Kharif	Varietal seed	15	2.0	85.0	65.0	30.77
Chilli (Pusa Jwala)	Kharif	Varietal evaluation	15	1.5	20.0	15.0	33.3

TRAINING (INCLUDING VOCATIONAL, SPONSORED AND FLD TRAINING)

Thematic areas	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Arid horticulture	10	245	30	275	46	5	51	291	35	326
Balance diet	1	0	25	25	0	5	5	0	30	30
Breed improvement	2	31	0	31	9	0	9	40	0	40
Crop production	18	432	0	432	87	0	87	519	0	519
Cropping system	2	12	0	12	37	0	37	49	0	49
Cultivation of fruits and vegetables	1	24	0	24	6	0	6	30	0	30
Dairy Management	12	204	26	230	24	14	38	228	40	268
Disease control	12	204	11	215	43	7	50	247	18	265
Employment generation	1	18	0	18	12	0	12	30	0	30
Entrepreneurship	5	135	0	135	32	0	32	167	0	167
Farm implements	2	45	10	55	11	2	13	56	12	68
Feed management	2	48	0	48	9	0	9	57	0	57
Fodder management	3	39	2	41	21	1	22	60	3	63
ICT	3	78	0	78	17	0	17	95	0	95
Income generation	8	67	135	202	19	25	44	86	160	246
Information sources	1	30	0	30	0	0	0	30	0	30
Information technology	1	41	0	41	16	0	16	57	0	57
IPM	4	73	0	73	13	0	13	86	0	86
Nutrition management	2	44	0	44	14	0	14	58	0	58
Organic farming	9	211	11	222	36	0	36	247	11	258
Plant Protection	5	75	0	75	31	0	31	106	0	106
Processing and value addition	5	19	60	79	19	58	77	38	118	156
Rain water harvesting	1	13	0	13	3	0	3	16	0	16
Rural developments	1	25	4	29	0	0	0	25	4	29
Soil and water management	7	172	5	177	40	5	45	212	10	222
Weed management	7	123	5	128	32	2	34	155	7	162
Youth development	2	45	0	45	9	0	9	54	0	54
Total	127	2453	324	2777	586	124	710	3039	448	3487

Sponsored Training Programmes

S. No	Title	Thematic area	Duration in days	Client PF/RY/ EF/LA	No. of courses	No. of Participants							Sponsoring Agency
						Male		Female		Total			
						Others	SC/ST	Others	SC/ST	Others	SC/ST	Total	
1.	Irrigation management in field crops	Soil and water management	2	RY	3	55	10	5	2	60	12	72	ATMA
2.	Value addition of fruit and vegetable	Processing and value addition	2	PF	2	45	5	2	2	47	7	54	ATMA
3.	Rain water harvesting technology	Soil and water management	2	RY	2	35	0	0	0	35	0	35	NABARD
4.	Seed spices production technology	Crop production	2	PF	1	30	10	0	0	30	10	40	NHM
5.	Livestock production analysis	Feed management	1	LA	1	43	0	0	0	43	0	43	ATMA
6.	Brucellosis	Disease control	1	LA/Doctors	1	45	0	0	0	45	0	45	DOAH
7.	Bull registration and scrub bull castration scheme	Breed improvement	1	LA/Doctors	1	65	20	0	0	65	20	85	DOAH
Total						**318**	**45**	**7**	**4**	**325**	**49**	**374**	

EXTENSION ACTIVITIES

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	21.9.2011, 22.9.2011, 23.9.2011, 24.9.2011, 28.9.2011, 25.11.2011, 26.12.2011, 15.2.2012, 16.3.2012, 19.3.2012	10	615	40	655	90	15	105	0	0	0	705	55	760
2.	Kisan Ghosthi	26.4.11, 24.5.11, 2.6.11, 13.6.11, 8.7.11, 5.9.11, 13.9.11, 24.9.11, 29.9.11, 7.10.11, 2.11.11, 13.12.11, 16.1.12, 8.1.12, 11.1.12	15	395	30	425	50	10	60	0	0	0	445	40	485
3.	Exhibition	26.1.12, 17.2.12	2	1402	35	1437	151	47	198	0	0	0	1553	82	1635
4.	Film Show		45	905	98	1003	123	44	167	4	2	6	1032	144	1176
5.	Method Demonstrations	Seed treatment	10	150	4	154	13	7	20	0	0	0	163	11	174
		Vegetable	5	98	7	105	10	2	12	0	0	0	108	9	117
		Fruit	5	90	2	92	5	0	5	0	0	0	95	2	97
		Balance feeding	4	0	80	80	0	12	12	0	0	0	0	92	92
		De worming	4	50	10	60	5	1	6	0	0	0	55	11	66
		Quality increase of roughage by urea treatment	2	35	15	50	5	0	5	0	0	0	40	15	55
		Vermi composting	10	112	7	119	21	2	23	0	0	0	133	9	142
6.		Implements	8	110	10	120	78	0	78	0	0	0	188	10	198
7.	Farmers Seminar		0	0	0	0	0	0	0	0	0	0	0	0	0
8.	Workshop		0	0	0	0	0	0	0	0	0	0	0	0	0
9.	Group meetings	Adoption of new technologies	20	143	12	155	17	3	20	0	0	0	160	15	175
10.	Lectures delivered as resource persons		258	450	130	580	150	70	220	250	35	285	850	235	1085
11.	Newspaper coverage	-	40			0			0			0	0	0	0
12.	Radio talks	-	9			0			0			0	0	0	0

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*
13.	TV talks	-	2			0			0			0	0	0	0
14.	Popular articles	-	3			0			0			0	0	0	0
15.	Extension Literature	-	3			0			0			0	0	0	0
16.	Advisory Services	-	50	375	10	385	87	13	100	0	0	0	462	23	485
17.	Scientific visit to farmers field	-	40	210	17	227	25	9	34	0	0	0	235	26	261
18.	Farmers visit to KVK	Technology innovation	63	2152	175	2327	956	78	1034	0	0	0	3108	253	3361
19.	Diagnostic visits	Problem diagnosis and remedy	35	177	10	187	35	7	42	0	0	0	212	17	229
20.	Ex-trainees Sammelan		4	35	7	42	10	1	11	0	0	0	45	8	53
21.	Soil health Camp	Technology innovation	4	60	8	68	15	5	20	0	0	0	75	13	88
22.	Animal Health Camp	12.5.11, 26.5.11	2	36	0	36	0	0	0	0	0	0	36	0	36
23.	Self Help Group Conveners meetings	Entrepreneurship development	3	0	70	70	0	10	10	0	0	0	0	80	80
24.	Celebration of important days (specify)	World Environment Day Science Day World Woman Day	3	45	10	55	12	30	42	0	0	0	57	40	97
25.	Scientists' visit to KVK farm	-	15	-	-	-	-	-	-	-	-	-	-	-	45
26.	Scientist farmers interactions	Technology innovation	3	45	30	75	15	35	50	0	0	0	60	65	125
	Grand Total		**679**	**7690**	**817**	**8507**	**1873**	**401**	**2274**	**254**	**37**	**291**	**9817**	**1255**	**11117**

PRODUCTION AND SUPPLY OF QUALITY SEED AND PLANTING MATERIAL

SEED MATERIALS

Major group/class	*Crop*	*Variety*	*Quantity (kg.)*	*Value (Rs.)*	*Provided to No. of Farmers*
OILSEEDS					
1.	Sesame	RT 127	272	17680	75
OTHERS (Specify)					
1	Green gram	SML 668	360	23400	60
2	Cumin	RZ 223	334	36740	30
3	Wheat	Raj 4037	80	1040	5
4	Barley	RD 2668	890	8900	35
5	Mustard	Maya/ GM 3	70	1820	20
6	Methi	RMT 305	165	4125	45
7	Worms	*Assinia foetida*	45.5 Units	17063	25
8	Vermi compost khad	-	17400	25000	48

SUMMARY

Sl. No.	*Major group/class*	*Quantity (kg)*	*Value (Rs.)*	*Provided to No. of Farmers*
1	OILSEEDS	272	17680	75
2	OTHERS	19299	101025	243
3	WORMS	45.5 Units	17063	25
TOTAL		**19571 + 45.5 Units**	**118705**	**318**

PLANTING MATERIALS

Major group/class	*Crop*	*Variety*	*Quantity (Nos.)*	*Value (Rs.)*	*Provided to No. of Farmers*
FRUITS/OTHERS	Ber	Gola, Sev	200	2000	50
	Sejna	CO-1	200	1000	200
	Aloevera	NPBGR-1	572	3210	150
	Azolla	-	0	800	50

SUMMARY

Sl. No.	*Major group/class*	*Quantity (Nos.)*	*Value (Rs.)*	*Provided to No. of Farmers*
1	FRUITS/OTEHRS	972	7010	450
	TOTAL	**972**	**7010**	**450**

PUBLICATIONS

Type of Publication	No. of Items/topics	Number copies
Research papers	16	-
Abstracts	16	-
Book chapters	3	-
Popular articles	1	-
Leaflets/Folders	3	-
Posters	13	-

SUCCESS STORIES

Name : Suraj Devi
Village : Chimanpura
Education : 5th
Income before intervention : Rs. 5000-8000
Income after intervention : Rs. 15000-20000
Intervention : Processing and value addition of fruits and vegetables
Motivation : KVK training, demonstrations
Impact : Income generate, socio -economic status and distribution of improved seed to other farmers.

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.