

# **Krishi Vigyan Kendra, Banswara**

**Directorate of Extension Education**

**Maharana Pratap University of Agriculture & Technology, Udaipur**



## **Annual Progress Report**

**April 2014 To March 2015**

**COMPILED BY**  
**DR. R.L.SONI**  
**DR. G.L.KOTHARI**  
**RASHMI DAVE**

# **ANNUAL PROGRESS REPORT 2014-15**

**(01.04.2014 TO 31.03.2015)**

## **1. GENERAL INFORMATION ABOUT THE KVK**

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

Address	Telephone		Email
Krishi Vigyan Kendra, Borwat Farm, Banswara	Office	FAX	<a href="mailto:kvkbasnswara@gmail.com">kvkbasnswara@gmail.com</a>
	02962-260069	02962-260069	

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

Address	Telephone		E mail
	Office	FAX	
Maharana Pratap University of Agriculture & Technology, Udaipur	0294-2417697	0294-2412515	<a href="mailto:dir_ext@rediffmail.com">dir_ext@rediffmail.com</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R.L. Soni	02962-260084	9460410283	<a href="mailto:kvkbanswara@gmail.com">kvkbanswara@gmail.com</a>

### **1.4. Year of sanction: 1983**

### **1.5. Staff Position (as on 31<sup>th</sup> March 2015)**

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/ other)
1	Programme Coordinator	Dr. R.L. Soni	Programme Coordinator	Agriculture Extension	37400-67000	52250	18-9-07	Temporary	OBC
2	Subject Matter Specialist	Dr. Ranjeet Singh	Subject Matter Specialist	Soil Science	15600-39100	27990	6-7-06	Temporary	OBC
3	Subject Matter Specialist	Dr. H.L.Bugalia	Subject Matter Specialist	Animal Science	15600-39100	21600	31.12.2011	Temporary	OBC
4	Subject Matter Specialist	Dr. Ramavtar	Subject Matter Specialist	Agronomy	15600-39100	21260	14.9.2011	Temporary	GEN.
5	Subject Matter Specialist	Dr. B.S.Bhati	Subject Matter Specialist	Horticulture	15600-39100	18200	25.6.2013	Temporary	GEN.
6	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-	-	-	-	-
8	Programme Assistant	Dr. G.L. Kothari	STA, Ext.	Extension Education	9300-34800	30890	20-2-1990	Permanent	GEN.

9	Farm Manager	Sh. B. K. Panchal	Programme Assistant	Agriculture	9300-34800	31850	17-5-1983	Permanent	OBC
10	Computer Programmer	Mrs. Rashmi Dave	Programme Assistant	Home Science	9300-34800	21160	13-8-2003	Temporary	GEN.
11	Accountant / Superintendent	Vacant	Section Officer	-	-		-	-	-
12	Stenographer	Sh. Devilal Kumhar	LDC	-	5200-20200	14860	24.2.1980	Permanent	OBC
13	Driver	Sh. Vithla	Driver	-	9300-34800	20890	22-12-1978	Permanent	SC
14	Driver	Vacant	Driver	-	-	-	-	-	-
15	Supporting staff	Sh. Goverdhan Lal	Supporting staff	-	5200-20200	11260	18-10-1979	Permanent	OBC
16	Supporting staff	Sh. Hamraj	Supporting staff	-	5200-20200	9910	3-1-1989	Permanent	OBC

#### 1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.69 ha
2.	Under Demonstration Units	200+172.33 Sqm.372.33 Sqm
3.	Under Crops	6.50 ha
4.	Orchard/Agro-forestry	6.00 ha
5.	Others (specify) Wasteland	0.61 ha

#### 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	1988	441.85	Constructed by EO and handed over to KVK			
2.	Farmers Hostel	ICAR	1985	372.0	Constructed by EO and handed over to KVK			
3.	Staff Quarters (6)	ICAR	2006-07	405.0	Constructed by EO and handed over to KVK			
4.	Demonstration Units (2)	Other agency	1992	200+172.33	3.0	-	-	-
a	Farm	Govt. of Raj.	1995	12.83	-	-	-	-
b	Workshop	DRDA	1990	200 sqm	-	-	-	-
c	Nursery	NHM	2008	0.33 ha	2.88	-	-	-
d	Fish pond	ICAR	2008		0.8	-	-	-
e	Vermicompost units	RF & NCOF, Ghaziabad	2005 & 2010	172.33 94.09	0.20 1.10	-	-	-
f	Soil and water testing lab	ICAR	2007	91.50	11.2	-	-	-
5	Rain Water harvesting system	ICAR	2008	35	9.72	-	-	-

6	Threshing floor	ICAR	2007	-	1.00	-	-	-
7	Farm godown	ICAR	-	EO office	-	-	-	-
8	Training Hall	ICAR	2009	-	-	-	-	-
9	Training Hall	CIFE	2009	-	-	-	-	-
10	Implement shade	RKVY	2012					
11	Irrigation chanel	RKVY	2013					
12	KVK fresh out let	NHM	2013					
13	Brooder house (Poultry unit)	NAIP	2013	285				
14	Fencing	ICAR	2015	Construction in progress				

### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep	2007	5 Lac	209763	Good
Motorcycle	2011	50000	9000	Good
Motorcycle	2004	27000	84266	Good

### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD	2005	82620	Good
Television + VCD	2007	26200	Good
Video conferencing	2007	170840	Good
Digital camera	2007	14000	Good
Digital camera	2009	15000	Good
Digital camera	2011	27000	Good

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

#### oSKkfud lykdkj lfefr cSBd & 12-5-2014

d`f`k foKku dsUnz] ckalokM+k ij dsUnz dh orZeku xfrfof/k;ksa dk ewY;kadu ,oa ubZ xfrfof/k;ksa dk dk;ZØe esa lekos`k djus ds fy;s funs`kd izlkj f`k{kk dh v/;{kk MkW- vkbZ-ts-ekFkqj] funs`kd izlkj f`k{kk] mn;iqj dh mifLFkfr esa ckalokM+k ftys esa dk;Zjr lHkh d`f`k] xzke fodkl ,oa efgyk fodkl ls tqM+s jktDh; dk;kZy;ksa ds foHkkxk/;{kksa ,oa p;fur xSj ljdkjh laLFkkuksa ds izfrfuf/k;ksa ds lkFk izxfr`khy d`"kd ,oa d`"kd efgyk dh mifLFkfr esa fnukad 12-5-2014 dks d`f`k foKku dsUnz ds lHkkxkj esa oSKkfud lykgdkj lfefr dh cSBd vk;ksftr dh xbZA

cSBd esa fuEu vf/kdkfj;ksa ,oa izfrfuf/k;ksa us Hkkx fy;kA

Ø-la-	uke	in ,oa foHkkx
1	MkW- vkbZ-ts-ekFkqj	funs`kd] izlkj f`k{kk funs`kky;] mn;iqj
2	MkW- th-,l-vkesVk	laHkkxh; funs`kd] d`f`k vuqla/kku dsUnz] ckalokM+k

3	MkW-, -ds-esgrk	foHkkxk/;{k]QkeZ e'khujh] d`f"k vfHk;kaf=dh egkfo/kky;
5	Jh Hkwjkyky ikVhnkj	mifuns'kd d`f"k foLrkj] ckalokM+k
6	Jh `kkfUryky Mkeksj	lgk;d funs'kd m ku] ckalokM+k
7	Jh jktsUnz flag	, -Mh-, e- ukckMZ
8	Jh dSyk'k eh.kk	d`f"k vf/kdkjh] ckalokM+k
9	Jh vkj-ds- oekZ	mi funs'kd vkRek d`f"k] ckalokM+k
10	Jh ,p-ds-rksej	dk;ZØe izca/kd] thohVh] ckalokM+k
11	MkW- us=iky flag	la;qDr funs'kd] Ik'kqiky] ckalokM+k
12	MkW- dSyk'k `kekZ	d`f"k vf/kdkjh] m ku] ckalokM+k
13	Jh ftrsUnz feJk	ts-ds-ih-lh-, y-
14	Jherh lq/kk ik.Ms	izksxsl laLFkk
15	Jh nypUnz xjkfl;k	ifj;kstuk funs'kd] cht fuxe] ckalokM+k
16	Jh esF;q oh-, e-	dfu"B fyfid] eRL; foHkkx] ckalokM+k
17	Jh ftrsUnz dqekj pkS/kjh	fjyk;al Qkm.Mslu] ckalokM+k
18	Jherh lkxj cqudj	efgyk lnL;
19	Jh ukukyky dVkj	izxfr'khy d`"kd
20	Jh dkyqjke	izxfr'khy d`"kd
21	MkW- j.kthr flag	fo"k; fo'ks"kK] dsohds] ckalokM+k
22	MkW- jkevorkj	fo"k; fo'ks"kK] dsohds] ckalokM+k
23	MkW-, p-, y-cqxxkfy;k	fo"k; fo'ks"kK] dsohds] ckalokM+k
24	MkW- th-, y-dksBkjh	ofj"B rduhdh lgk;d ¼izlkj½] dsohds] ckalokM+k
25	Jh ch-ds- iapky	rduhdh lgk;d] dsohds] ckalokM+k
26	Jherh jf'e nos	rduhdh lgk;d] dsohds] ckalokM+k
27	MkW-ch-, l-HkkVh	fo"k; fo'ks"kK] dsohds] ckalokM+k
28	Jh nsohyky	dfu"B fyfid] dsohds] ckalokM+k

### SAC proceedings

Ø-la-	fopkj.kh; fcUnq	dk;Zokgh
1	vke] eDdk ,ao xsgwW dh Qlyks esa ewY; lo/kZu ,ao izlaLdj.k dk dk;Z fd;k tk;A	vke] eDdk ,ao xsgwW dh Qlyks esa ewY; lo/kZu ,ao izlaLdj.k gsrq pkj izf'k{k.k vk;ksftr fd;s x;s ftles 103 efgyk izf'k{k.kkFkZ;ks us Hkkx fy;k eDdk izLladj.k ds rgr QPM eDdk ds fcfLdV] uku [kVkbZ] Iso] ikiM] fry ikjs vkfn cukuk lh[kk;k x;kA vke izLldj.k ds rgr vke ikiM] vkpkj] eqjCck] tse] 'kcZr o VkWQh cukuk lh[kk;k x;kA
2	ve:n es isp cMhax }kjk ikS/ks rS;kj djuk	dsUnz dh uLkZjh es 4000 ve:n ds ikS/ks isp cMhax ls rS;kj fd;s x;sA
3	vkRek ds izxfr'khy d`"kdks dk izf'k{k.k vk;ksftr gks	vkRek ds izf'k{k.kkks es foRrh; O;oLFkk fo"ofo/kky; ds ek;/e ls ugh gksus dh otg ls izf'k{k.k vk;ksftr ugha gq,sA
4	lhisst fu;a=.k ij eksMy dk	Lkhisst fu;a=.k ij ,d&,d okRkkZ izf'k{k.kkks es

	fodkl o izf'k{k.k fn;k tk;s	LkfEefyr dh xbZA
5	i'kqvksa ds fy;s cka>iu fuokj.k dsEi vk;ksftr fd;s tk;sA	Ckka>iu fuokj.k gsqrq RAJUVAS es ek;/e ls fdlkuks dks voxr djok;k x;k
6	tSfod [ksrh] oehZ dEikSLV bR;kfn dk izf'k{k.k vk;ksftr djs o uoksUes"kh ;kstuk rS;kj djsA	tSfod [ksrh] oehZ dEikSLV ij izf'k{k.k vk;ksftr fd;s rFkk 43 oehZ dEikSLV izn'kZu Hkh vk;ksftr fd;s x;sA
7	tsrqu dh [ksrh dh IEHkkouk ,ao lw{e flapkbZ ,ao QVhZxs'ku ij izf'k{k.k vk;ksftr djsA	Tksrqu ds ikS/ks yxkus gsrq rS;kj dh Fkh ijUrq ikS/k miyC/k ugha gks ldsA lw{e flapkbZ ,ao QVhZxs'ku ij ,d izf'k{k.k vk;ksftr fd;k x;kA
8	Lao; lgk;rk leqgks dh efgykviks dks vkpkj cukus o ewY; lao/kZu ij izf'k{k.k vk;ksftr djsA	rhu izf'k{k.k vk;ksftr dj 77 Lao; lgk;rk leqgks dh efgykviks dks ykHkkfUor fd;k x;kA
9	d'f"k midj.kks] vkStkjs ls gksus okyh nq?kZVukviks ls fdlkuks dks lko/kku djs ij izf'k{k.k vk;ksftr djsA	d'f"k vfHk;kaf=dh egkfo/kky;] mn;iqj esa 50 d'"kdks dks vkstjks ds lqjf{kr mi;ksx gsrq ,d fnolh; izf'k{k.k o Hkze.k dj;k x;kA

## 2. DETAILS OF DISTRICT (2014-15)

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

S. No	Farming system/enterprise
1.	Crop based : Maize/Cotton/Soybean/Paddy-Wheat/Rabi Maize/Gram/Summer moong
2.	Horticulture based : Chilli/Tomato/Brinjal/Okra-Wheat/Rabi maize
3.	Live stock based : Cow/Buffalo/Goat

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

S. No	Agro-climatic Zone	Characteristics
1	23°33' N Latitude, 74°25' E Longitude, Longitude, 220 M MSL	High rainfall and relative humidity

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in Percentage
1	Medium black clay soil	Heavier and content high clay, high water holding capacity and suitable for cotton and soybean	10.50
2	Medium brown clay soil		15.56
3	Medium brown loamy soil		21.55
4	Medium brown gravelly loam	Medium in clay and suitable for vegetables and most crops	13.48
5	Red gravelly loamy hilly sols	Light soils, low water holding capacity and suitable for maize and pulses	3.75
6	Medium red loamy		21.39
7	Shallow red gravelly loam	Lights soils	13.22

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (kg /ha)
1	Paddy	28542	552100	1934
2	Maize	139246	1442860	1036
3	Urd	11520	55230	479
4	Soybean	20429	154550	759
5	Cotton	11954	249600	359
6	Wheat	87177	2037510	2337
7	Barley	1023	16230	1587
8	Gram	13719	134970	984

(Source- Rajasthan Agricultural Statistics at a Glance, 2011-12 Directorate of Agritulture, Rajasthan -Jaipur)

## 2.5. Weather data

Std. Week	From	To	Temperature (°C)		Humidity (%)		Rain fall (mm)	Rainy days	Wind speed (Km/hr)	Sun shine hour
			Max.	Min.	Morn.	Even.				
01	01.01.14	04.01.14	23.5	11.0	81	50	-	-	03.6	04.6
02	08.01.14	14.01.14	24.5	10.4	79	55	-	-	03.0	07.3
03	15.01.14	21.01.14	24.6	11.2	79	59	030.1	1	03.6	07.5
04	22.01.14	28.01.14	22.0	13.3	82	63	036.3	1	04.0	03.3
05	29.01.14	04.02.14	27.3	11.3	78	34	-	-	01.8	09.7
06	05.02.14	11.02.14	27.8	10.6	78	30	-	-	02.0	09.5
07	12.02.14	18.02.14	24.6	10.5	78	44	-	-	02.2	09.5
08	19.02.14	25.02.14	27.8	13.3	79	47	013.6	1	02.1	08.0
09	26.02.14	04.03.14	27.7	12.1	77	45	-	-	02.3	09.7
10	05.03.14	11.03.14	30.7	14.3	70	36	001.2	1	03.4	09.7
11	12.03.14	18.03.14	33.4	15.0	68	23	-	-	-03.1	10.0
12	19.03.14	25.03.14	34.50	14.5	69	24	-	-	03.6	10.1
13	26.03.14	01.04.14	36.5	17.5	68	24	-	-	03.6	0.93
14	02.04.14	08.04.14	37.6	18.0	64	19	-	-	47	10.2
15	09.04.14	15.04.14	37.7	17.8	57	20	-	-	03.8	10.2
16	16.04.14	22.04.14	38.3	21.0	59	25	-	-	05.3	10.3
17	23.04.14	29.04.14	40.8	22.0	53	17	-	-	03.8	11.5
18	30.04.14	06.05.14	40.8	25.0	52.20	20	001.0	1	06.6	10.5
19	07.05.14	13.05.14	39.7	24.3	51	20	-	-	07.4	11.1
20	14.05.14	20.05.14	39.5	25.4	48	19	-	-	07.7	11.2
21	21.05.14	27.05.14	41.8	26.4	39	17	-	-	06.8	11.1
22	28.05.14	03.06.14	42.0	28.5	40	20	-	-	10.4	11.2
23	04.06.14	10.06.14	45.2	29.2	40	23	-	*	12.2	10.8
24	11.06.14	17.06.14	38.8	28.2	61	38	-	*	14.3	09.7
25	18.06.14	24.06.14	38.2	28.5	65	40	-	*	17.6	08.5
26	25.06.14	01.07.14	38.0	28.0	65	39	-	*	18.6	09.6
27	02.07.14	08.07..14	38.1	28.4	58	37	-	*	16.5	09.4
28	09.07.14	15.07.14	36.5	24.5	70	52	047.1	2	10.4	05.3
29	16.07.14	22.07.14	31.3	22.8	86	74	0092.7	4	8.9	01.9
30	23.07.14	29.07.14	28.2	24.7	93	84	062.4	5	9.5	00.6
31	30.07.14	05.08.14	31.3	24.9	85	73	062.9	5	06.6	02.5
32	06.08..14	12.08.14	29.1	24.4	89	73	071.2	4	10.6	02.0
33	13.08.14	19.08.14	31.5	24.9	86	65	002.5	1	07.9	04.5
34	20.08.14	26.08.14	34.0	25.5	85	62	018.2	2	03.5	07.8
35	27.08.14	02.09.14	33.9	24.5	87	71	090.0	4	04.3	05.9
36	03.09.14	09.09.14	29.5	24.4	91	80	169.1	5	06.5	02.1
37	10.09.14	16.09.14	29.6	24.4	89	74	009.9	2	05.1	02.9
38	17.09.14	23.09.14	32.2	23.2	82	63	-	-	04.3	09.1
39	24.09.14	30.09.14	34.0	21.4	76	41	-	-	02.7	09.3
40	01.10.14	07.10.14	36.7	21.7	72	37	003.0	1	02.4	09.5

41	08.10.14	14.1014	35.7	19.6	72	39	-	-	02.7	09.3
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## 2.6. Production and productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity (Kg.)
<b>Cattle</b>	<b>640680</b>	-	-
<i>Crossbred</i>	5909	1350 lit/lactation	4.5 lit/day
<i>Indigenous (Desi)</i>	634771	450 lit/laction	1.5 lit/day
<b>Buffalo</b>	270630	-	-
<i>Crossbred</i>	5000	1500 lit.	5 lit/day
<i>Indigenous (Desi)</i>	265630	750 lit.	2.5 lit
<b>Goats</b>	460460	-	-
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	460460	-	.25 ml/day
<b>Rabbits</b>	729	-	-
<b>Poultry</b>			
Hens	-	-	-
<i>Desi</i>	360290	30-40 egg/year	-
<i>Improved</i>	-	-	-
Ducks	13	-	-
Turkey and others	-	-	-
<b>Fish</b>			
<i>Marine</i>	-	-	-
<i>Inland</i>	22,000 ha	220 mt	100 kg/ha/yr
Prawn	20.0 ha	1.5 mt	75 kg/ha/yr
Scampi	-	-	-
Shrimp	-	-	-

## 2.7 Details of Operational area / Villages (2014-15)

Taluka	Name of the block	Name of the village	Major crops & enterprise	Major problem identified	Identified Thrust Areas
Banswara	Talwara	Masotiya Devliya Sageta Nokala Jhalo Ka Garha	Maize  Wheat  Soybean  Vegetables	<ul style="list-style-type: none"> <li>• Low productivity of major crops</li> <li>• SRR is low.</li> <li>• Imblance nutrition.</li> <li>• Marketing problem</li> <li>• Nondiscribed breed.</li> <li>• Poor feeding &amp; management practices in cattle &amp; goat.</li> <li>• Poor water management.</li> <li>• Mal nutrition ini Child and women.</li> <li>• Lack of fish farming.</li> <li>• Less area under fruits</li> </ul>	<ul style="list-style-type: none"> <li>• Enhancing production of common crops.</li> <li>• Increasing seed production.</li> <li>• Improving the feeding breeding and management practices in cattle and goat.</li> <li>• Introduction of Nirbhic &amp; Kadaknaath poultry as back yard poultry faming.</li> </ul>



Bagidora	Bagidora	Sangrampur, Dalpura & Khokharwa	Maize Wheat Soybean Vegetables Pulses	<ul style="list-style-type: none"> <li>• Low yield of major cereals and pulses.</li> <li>• Low seed replacement rate of pulses.</li> <li>• Non descript breed of goat.</li> <li>• Malnutrition in farm families.</li> </ul>	
Sajjangarh	Sajjangarh	Goika Pargi, Goika baria, Rupgarh, Jalimpura, Kushalipada, Waka Khunta, Pandwal Lunja, Pandwal Oonkar	Maize Wheat Soybean Vegetables Pulses	<ul style="list-style-type: none"> <li>• Low yield of major cereals and pulses.</li> <li>• Low seed replacement rate of pulses.</li> <li>• Non descript breed of goat.</li> <li>• Malnutrition in farm families.</li> </ul>	
Ghatol	Ghatol	Kuwanja (Azgariyapada, Herpada, Lambaghata, Chunakhora, Charpotapada, Dhanipada) Amarthoon (Upla pada, Nichla pada, Bhompada, Bhanwarvod) Chekla Badhiya Nagwala Madanpura	Maize Wheat Soybean Vegetables Pulses	<ul style="list-style-type: none"> <li>• Low yield of major cereals and pulses.</li> <li>• Low seed replacement rate of pulses.</li> <li>• Non descript breed of goat.</li> <li>• Malnutrition in farm families.</li> </ul>	

## 2.7 Priority/thrust areas

S.No.	Thrust area
1	Enhancing productivity of maize, paddy, soybean and cotton during <i>kharif</i> , wheat and gram during <i>rabi</i> and moong during <i>zaid</i> season
2	Increasing the seed replacement rate through promoting seed production techniques of self pollinated crops
3	Diversifications of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Malika, Kesar, Dasher), Aonla (NA 7, Chakya) and Guava (L 49) and conservation of genetic resources of mango
4	Promotion dry land farming technologies with emphasis on water harvesting
5	Improving the indigenous breeds of goat by breeding and management
6	Empowerment of women through drudgery reduction in agriculture and animals husbandry, improvement in the nutrition, health, hygiene and by using improve agricultural implements
7	Imparting vocational training to tribal youth for self-employment generation on fruit plant nursery raising, fabrications of agricultural implements, livestock production, agro processing of soybean & mango

8	Exploring possibilities of aqua culture in tribal belt of Banswara
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### 3. TECHNICAL ACHIEVEMENTS

#### 3. A. Details of target and achievements of mandatory activities by KVK during 2014-15

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
8	5	40	31	116 ha	316 ha	-	1091

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	Achievements	Targets	Achievements	Targets	Achievements	Targets	Achievements
Farmers	58	95	1740	3524	22	29	3027	25888
Rural youth	7	2	210	51	-	-	-	-
Extn. Functionaries	4	2	120	62	-	-	-	-

Seed Production (Qtl.)			Planting material (Nos.)	
5			6	
Target	Achievement		Target	Achievement
-	218.4		36500	

#### 3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Enhancement of productivity in cereals pulses & oil seed	Maize, wheat, paddy, gram, cotton, summer moong and soybean	Low productivity	-	FLD's on maize, wheat and summer moong (285)	Integrated crop management (12)	Recent advances in crop production (2)	6	High yielding variety seed, hybrid seeds and fertilizers
2	Crop diversification	Plantation of orchard	Low productivity in traditional crops	-	-	2	-	4	Supply of planting material

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

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

[illegible]

Management										
Resource conservation technology										
Small Scale income generating enterprises										
<b>TOTAL</b>	<b>2</b>	<b>1</b>								

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

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Sheep</b>	<b>Goat</b>	<b>Piggery</b>	<b>Rabbitry</b>	<b>Fisheries</b>	<b>TOTAL</b>
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
<b>TOTAL</b>								

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

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Sheep</b>	<b>Goat</b>	<b>Piggery</b>	<b>Rabbitry</b>	<b>Fisheries</b>	<b>TOTAL</b>
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
<b>TOTAL</b>								

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

**A. Technology Assessment**

**Trial 1 (Soil Science)**

- 1) Title : Zinc nutrition to Maize
- 2) Problem diagnose/defined : Zinc deficiency in crops
- 3) Details of technologies selected for assessment /refinement : T<sub>1</sub>- Farmers practice (110:60:0 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha )  
T<sub>2</sub>- RDF (120:40:15 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O /ha)  
T<sub>3</sub>- RDF+ZnSo<sub>4</sub>@25kg/ha
- 4) Source of technology : KVK, MPUAT, Banswara
- 5) Production system thematic area : Maize/Soybean/Cotton/Paddy-Wheat/Rabi maize-Summer moong
- 6) Thematic area : Nutrient management
- 7) Performance of the Technology with performance indicators : Yield, net return & B:C ratio
- 8) Final recommendation for micro level situation : -
- 9) Constraints identified and feedback for research : -
- 10) Process of farmers participation and their reaction : All farm operations are done by farmers themselves in collaboration of scientist.
- 11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Zinc deficiency in crops	Zinc nutrition to maize	10	Blanket application of ZnSo <sub>4</sub> @25kg/ha	Yield, net return and B:C ratio	Grain yield	Increase in yield	-

Technology Assessed	Yield (q/ha)		Net Return (Profit) in Rs. / unit	BC ratio
	2014	2015		
11	12		13	14
T <sub>1</sub> - Farmers practice (110:60:0 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha )	19.3	-	-	-
T <sub>2</sub> - RDF (120:40:15 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O /ha)	28.5	-	-	-
T <sub>3</sub> - RDF+ZnSo <sub>4</sub> @25kg/ha	32.7	-	-	-

## **A. Technology Assessment**

### **Trial 2 (Soil Science)**

- |  |   |   |
|--|---|---|
| 1. Title   | : | Balanced nutrient management in hybrid chilli   |
| 2. Problem diagnose/defined                                    | : | Use of unbalanced and inadequate fertilizers  |
| 3. Details of technologies selected for assessment /refinement | : | T <sub>1</sub> - Farmers practice (110:40:0 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha and no use of fixed amount of FYM)<br>T <sub>2</sub> - RDF (70:48:50 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O and 20 ton FYM/ha)<br>T <sub>3</sub> - Balanced nutrient management (200:100:100 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O with 15 ton FYM/ha) |
| 4. Source of technology  | : | KVK, MPUAT, Banswara  |
| Production system  |   |   |
| thematic area  | : | Maize/Soybean/Cotton/Paddy-Wheat/Rabi maize-Summer moong  |
| 5. Thematic area   | : | Nutrient management   |
| 6. Performance of the Technology with performance indicators   | : | Yield, net return & B:C ratio   |
| 7. Final recommendation for micro level situation              | : | Application of 200:100:100 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O with 15 ton FYM/ha found superior over RDF and farmers practice of nutrient management  |
| 8. Constraints identified and feedback for research            | : | 1. Poor quality of organic manures<br>2. Non availability of potassium fertilizers in KVSS / local market   |
| 9. Process of farmers participation and their reaction         | : | All farm operations starting from nursery raising to harvesting done by farmer's himself in collaboration of Scientist  |

## 11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chilli (Ujala)	Irrigated	Use of unbalanced and inadequate fertilizers	Balanced nutrient management in hybrid chilli	5	Balance nutrient management	Yield, net return and B:C ratio	Yield	Increase in yield	Farmers agreed to use balance nutrient management practice

Technology Assessed	Yield (q/ha)		Net Return (Profit) in Rs. / ha	BC Ratio
	2013*	2014*		
11	12		13	14
T <sub>1</sub> - Farmers practice (110:40:0 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha and no use of fixed amount of FYM)	123.3	98.2	158600	2.52
T <sub>2</sub> - RDF (70:48:50 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O and 20 ton FYM/ha)	166.6	136.0	233900	3.40
T <sub>3</sub> - Balanced nutrient management (200:100:100 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O with 15 ton FYM/ha)	218.0	186.7	334650	4.78

\* Low yield due to unfavorable weather condition

**B. Technology Refinement****Trial 3**

1. Title : Management of sulphur deficiency in soybean
2. Problem diagnose/defined : Use of high analysis fertilizers and no use of sulphur source by farmers of Banswara district of Rajasthan
3. Details of technologies selected : T<sub>1</sub>. Farmer's practice (only use of DAP)  
for assessment/refinement: T<sub>2</sub>. RDF by SSP and urea  
T<sub>3</sub>. RDF by SSP and urea + Gypsum (250 kg/ha)
4. Source of technology : KVK, MPUAT, Banswara
5. Production system thematic area: Maize/Soybean/Cotton/Paddy-Wheat/Rabi maize-Summer moong
6. Thematic area : Nutrient management
7. Performance of the Technology  
with performance indicators : Yield, net return & B:C ratio
8. Final recommendation for  
micro level situation : -
9. Constraints identified and  
feedback for research : -
10. Process of farmers participation  
and their reaction : All farm operations starting from sowing of crop to harvesting will be done by farmer's himself in collaboration of Scientist



## 11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Soybean	Rainfed	Use of high analysis fertilizers and no use of sulphur source by farmers of Banswara district of Rajasthan	Management of sulphur deficiency in soybean	8	Balance nutrient management	Yield, net return and B:C ratio		The grain yield of soybean was superior with T <sub>3</sub> (RDF by SSP and urea +zipsum 250 kg / ha) over other treatments	

Technology Assessed	Yield (q/ha)		Average	Net Return (Profit) in Rs. / unit	BC Ratio (average)
	2013*	2014			
11	12		12	14	15
T <sub>1</sub> - Farmer's practice (only use of DAP)	7.55	7.78	7.66		
T <sub>2</sub> - RDF by SSP and urea	8.40	9.95	9.17		
T <sub>3</sub> - RDF by SSP and urea + Gypsum (250 kg/ha)	9.20	11.66	10.43		

\* Low yield due to high rainfall and rains extended up to month of oct. which led to difficulty in harvesting and threshing of crop

**B. Technology Refinement****Trial 4**

1. Title : Weed management in Kharif Maize
2. Problem diagnose/defined : No use of herbicides and heavy growth of weeds in kharif season
3. Details of technologies selected :  
for assessment/refinement:
  - T<sub>1</sub>. Farmer's practice (No use of herbicides)
  - T<sub>2</sub>. Recommended practice Atrazine@ 500gm ai/ha as pre-emergence
  - T<sub>3</sub>. Atrazine@ 500gm ai/ha as pre-emergence+2,4-D Sodium salt@400gm ai /ha 30DAS
4. Source of technology : KVK, MPUAT, Banswara
5. Production system thematic area: Maize/Soybean/Cotton/Paddy-Wheat/Rabi maize-Summer moong
6. Thematic area : Weed management
7. Performance of the Technology  
with performance indicators : Yield, net return & B:C ratio
8. Final recommendation for  
micro level situation : -
9. Constraints identified and  
feedback for research : -
10. Process of farmers participation  
and their reaction : All farm operations starting from sowing of crop to harvesting was done by farmer's himself in collaboration of Scientist

## 11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	No use of herbicides and heavy growth of weeds in kharif season	Weed management in Kharif Maize	5	T <sub>1</sub> - Farmer's practice (No use of herbicides)  T <sub>2</sub> - Recommended practice Atrazine@ 500gm ai/ha as pre-emergence  T <sub>3</sub> - Atrazine@ 500gm ai/ha as pre-emergence+2,4-D Sodium salt@400gm ai /ha 30DAS	Yield, net return & B:C ratio	Yield, net return & B:C ratio	The application of Atrazine@ 500gm ai/ha as pre-emergence+2,4-D Sodium salt@400gm ai /ha 30DAS recorded superior yield over farmers practice and Atrazine @ 500gm ai/ ha as pre-emergence	The weed growth was lowest in the treatment no 3 and proper growth and development of the crop.

Technology Assessed		Yield (q/ha)		Net Return (Profit) in Rs. / unit	BC Ratio
		2014	2015		
11		12		13	14
T <sub>1</sub> -	T <sub>1</sub> - Farmer's practice (No use of herbicides)	20.76	-		
T <sub>2</sub> -	T <sub>2</sub> - Recommended practice Atrazine@ 500gm ai/ha as pre-emergence	29.44	-		
T <sub>3</sub> -	T <sub>3</sub> - Atrazine@ 500gm ai/ha as pre-emergence+2,4-D Sodium salt@400gm ai /ha 30DAS	33.12	-		

## B. Technology Refinement

### Trial 5

1. Title : Crop geometry management of *rabi* maize in canal irrigated areas of Banswara
2. Problem diagnose/defined : High density planting (improper spacing) and use of high seed rate
3. Details of technologies selected : T<sub>1</sub>. Farmer's practice (crop geometry, 45x15 cm)  
for assessment/refinement: T<sub>2</sub>. Recommended practice (crop geometry, 60x20 cm)  
T<sub>3</sub>. Suggested new crop geometry, 50x20 cm
4. Source of technology : Discussed in SAC meeting, 2013 at KVK, MPUAT, Banswara
5. Production system thematic area : Maize/Soybean-Wheat/Rabi maize-Summer moong
6. Thematic area : Integrated crop management
7. Performance of the Technology  
with performance indicators : Yield, net return & B:C ratio
8. Final recommendation for micro level situation : -
9. Constraints identified and  
feedback for research : -
10. Process of farmers participation  
and their reaction : All farm operations starting from sowing of crop to harvesting will be  
done by farmer's himself in collaboration of Scientist

## 11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Irrigated	High density planting (improper spacing) and use of high seed rate	Crop geometry management of <i>rabi</i> maize in canal irrigated areas of Banswara	3	Crop geometry management	Net return acrop yield and B:C ratio	Net return acrop yield and B:C ratio	The trial failed in <i>rabi</i> 2013-14	-

Technology Assessed		Yield (q/ha)		Net Return (Profit) in Rs. / unit	BC Ratio
		2013-14	2014-15		
11		12		13	14
T <sub>1</sub> -	Farmer's practice (crop geometry, 45x15 cm)	The trial failed in <i>rabi</i> 2013-14	Result awaited		
T <sub>2</sub> -	Recommended practice (crop geometry, 60x20 cm)				
T <sub>3</sub> -	Suggested new crop geometry, 50x20 cm				

### 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 2013-14 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	Black gram	ICM	Seed replacement	Establishment of seed bank	10	900	400
2	Gram	ICM	Seed replacement	Establishment of seed bank	6	150	55
3	Wheat	ICM	Seed replacement & nutrient management	Establishment of seed bank	3	100	50

#### b. Details of FLDs implemented during 2014-15

##### Crop production

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	Blackgram (RKVY)	ICM	Seed replacement	Kharif 2014	40.0	40.0	100	-	100	
2	Blackgram (KVK)	ICM	Seed replacement	Kharif 2014	20.0	20.0	50	-	50	
3	Soyabean (RKVY)	ICM	Seed replacement	Kharif 2014	40.0	40.0	97	3	100	
4	Soyabean (KVK)	ICM	Seed replacement	Kharif 2014	20.0	24.0	46	14	60	
5	Maize (TSP)	ICM	Seed replacement	Kharif 2014	10.00	11.2	20	-	28	
6	Paddy (KVK)	RCT	SRI technique	Kharif 2014	2	2.0	10	-	10	

7	Paddy (NEP)	RCT	SRI technique	Kharif 2014	-	4.0	20	-	20	
9	Bajra Chari (NIFTD)	Fodder Technology	Fodder Technology	Rabi 2014-15	0.2	0.4		2	2	
10	Jowar Chari (NIFTD)	Fodder Technology	Fodder Technology	Rabi 2014-15	0.2	1.2	2	4	6	
11	Maize Chari (NIFTD)	Fodder Technology	Fodder Technology	Rabi 2014-15	0.4	2.4	1	11	12	
12	Gram (RKVY)	Seed replacment	Seed replacment	Rabi 2014-15	25.0	25.20	63	-	63	
13	Gram (KVK)	Seedreplacement	Seed replacement	Rabi 2014-15	20.0	20.0	50	-	50	
17	Rabi Maize	ICM	Full package of practices	Rabi 2014-15	10.0	20.0	50	-	50	
18	Wheat (KVK)	ICM	Seed replacement	Rabi 2014-15	10.0	10.0	25	-	25	
19	Berseem (NIFTD)	Fodder Technology	Fodder Technology	Rabi 2014-15	0.2	0.2	1	-	1	
	Oat (NIFTD)	Fodder Technology	Fodder Technology	Rabi 2014-15	0.2	0.4	2	-	2	

## 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					
Gram (RKVY)	Rabi 2013-14	Rainfed/Irrigated	Light black	L	M	M	Maize/black gram	28.10.13 to 3.12.2013	15.3.14 to 30.3.14		
Gram	Rabi 2013-14	Rainfed/Irrigated	Light black	L	M	M	Maize/black gram	2.11.13 to 20.11.13	2.3.14 to 25.3.14		
Popcorn	Rabi 2013-14	Irrigated	Light black	L	M	M	Maize/black gram	10.11.13 to 15.12.13	20.4.13 to 30.4.13		
Sweet corn	Rabi 2013-14	Irrigated	Light black	L	M	M	Maize/black gram	25.11.13 to 10.12.13	15.2.14 to 25.2.14		
Wheat	Rabi 2013-14	Irrigated	Light black	L	M	M	Maize/black gram	28.11.13 to 12.12.13	25.3.14 to 5.4.14		
Rabi Maize	Rabi 2013-14	Irrigated	Light black	L	M	M	Maize/black gram	7.11.13 to 7.12.13	24.4.14 to 29.4.14		
Green gram	Zaid 2014	Irrigated	Light black	L	M	M	Wheat/gram	24.3.14 to 29.4.14	6.5.14 to 7.6.14		
Blackgram (RKVY)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	17.7.14 to 22.7.14	4.10.14 to 6.10.14		
Blackgram	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	17.7.14 to 22.7.14	4.10.14 to 20.10.14		
Soybean (RKVY)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	17.7.14 to 22.7.14	15.10.14 to 22.10.14		
Soybean	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	18.7.14 to 24.7.14	13.10.14 to		



									23.10.14		
Maize (TSP)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	20.7.14 to 27.7.14	15.10.14 to 30.10.14		
Paddy	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	20.7.14 to 24.7.14	15.11.14 to 20.11.14		
Paddy (NEP)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	20.7.14 to 24.7.14	25.11.14 to 30.11.14		
Jowar (NIFTD)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	25.7.14 to 5.8.14	Green fodder multicut		
Bajra (NIFTD)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	25.7.14 to 5.8.14	Green fodder multicut		
Maize (NIFTD)	Kharif 2014	Rainfed	Light black	L	M	M	Wheat/summer green gram	25.7.14 to 5.8.14	Green fodder multicut		
Gram (RKVY)	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Gram	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Maize	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Wheat	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Oat (NIFTD)	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Berseem (NIFTD)	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Summer	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		
Greengram	Rabi 2014-15	Irrigated	Light black	L	M	M	Maize/ Soybean/ Blackgram	-	Result Awaited		

## Performance of FLD

Sl.No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Gram (RKVY)	Integrated crop management	Pratap Chana-1	84	21.6	16.25	8.12	11.25	7.5	50	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
2	Gram	Integrated crop management	Pratap Chana-1	50	20	15	8.75	11	7.44	47.85	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
3	Popcorn	Integrated crop management	VL Ambar	5	1	10	7.5	8.4	-	-	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
4	Sweet Corn	Integrated crop management	Sugar -75	4	0.8	275	240	253.75	-	-	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
5	Rabi Maize (ISOPOM)	Integrated crop management	Bio-9682	25	10	100	67.5	80.4	49.8	61.45	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment

6	Wheat	Integrated crop management	Raj-4037	25	10	47	27.5	33.5	25.96	29.04	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
7	Rabi Maize	Integrated crop management	Bio-9682	10	4	75	60	65.5	39.7	64.99	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
		Integrated crop management	Bio-9681	15	6	70	50	59.79	39.7	50.60	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
8	Zaid Greengram	Integrated crop management	SML-668	150	30	12.5	8.75	10	6.81	46.84	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
9	Blackgram (RKVY)	Integrated crop management	PU-31	100	40	8.5	5	6.55	2.74	139.05	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
10	Blackgram	Integrated crop management	PU-31	50	20	8.7	5.25	6.5	2.75	136.36	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment

11	Soybean (RKVY)	Integrated crop management	JS-9560	100	40	13.5	8.5	10.67	7.24	47.38	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
12	Soybean	Integrated crop management	JS-9560	60	24	13.8	9.25	10.75	7.8	37.82	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
13	Paddy (NEP)	Integrated crop management	PRH-10	20	4	60	44.5	51.76	25.6	102.19	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
14	Paddy	Integrated crop management	Pusa Sugandh-5	10	2	45	30	35.5	18	97.22	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
15	Maize(TSP)	Integrated crop management	Prabal	14	5.6	30.62	20	24.77	13.16	88.22	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
		Integrated crop management Integrated crop management	DKC-7074	14	5.6	33.75	20	24.28	13.16	84.50	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment

16	Jower(NIFTD)	Integrated crop management	MP-Chari	6	1.2	380	290	340	230	47.83	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
17	Bajra(NIFTD)	Integrated crop management	AVKB-19	2	0.8	340	300	320	220	45.45	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
18	Maize(NIFTD)	Integrated crop management	African Tall	12	2.4	440	310	395	145	172.41	Improved seed, fertilizers, urea, and SSP seed treatment with fungicide, insecticide and culture	Local seed, use of DAP, no seed treatment
19	Gram (RKVY)	Integrated crop management	Pratap Chana 1 and GNG-1499	63	25	Result awaited					-	-
20	Gram	Integrated crop management	Pratap Chana 1,JG-11 and RVG-202	50	20	Result awaited					-	-
21	Maize	Integrated crop management	Bio-9682	50	20	Result awaited					-	-
22	Wheat	Integrated crop management	Raj-4037 and MP-3288	25	10	Result awaited					-	-
23	Oat (NIFTD)	Fodder technology	JHO-228	2	0.4	Result awaited					-	-
24	Berseem (NIFTD)	Fodder technology	Vardan	1	.0.2	Result awaited					-	-
25	Summer Greengram	Integrated crop management	IPM-02-03	100	20	Result awaited					-	-

**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
16925	15500	30375	20250	13450	4750	1.79
16925	15500	29700	20088	12775	4588	1.75
30000	-	42000	-	12000	-	1.40
50000	-	380625	-	330625	-	7.61
30875	28000	96480	59760	65605	31760	3.12
21975	21180	50250	38940	28275	17760	2.29
30875	28000	78600	47640	47725	19640	2.55
30875	28000	71448	47640	40573	19640	2.31
19500	17500	55000	37455	35500	19955	2.82
12500	10500	26200	10960	13700	460	2.10
12500	10500	26000	11000	13500	500	2.08
17500	15000	37345	21720	19845	6720	2.13
17500	15000	37625	27300	20125	12300	2.15
24000	19500	77640	38400	53640	18900	3.24
22500	19500	78100	27000	55600	7500	3.47
17500	14500	29724	15792	12224	1292	1.70
17500	14500	29136	15792	11636	1292	1.66
14500	13000	34000	23000	19500	10000	2.34
14500	13000	32000	22000	17500	9000	2.21
15000	14000	39500	14500	24500	500	2.63

Remarks:

**Crop – Maize**

1. The low yield could be ascribed to early withdrawal of monsoon, which does not allow proper growth and development of the crop, hence potential yield of the variety was not realized.

**Crop – Soybean**

1. The soybean variety JS 95-60 is short duration matured in 80-90 day period

- The low yield could be ascribed to early withdrawal of monsoon, which does not allow proper growth and development of the crop, hence potential yield of the variety was not realized.

#### **Crop – Black gram**

- The crop matured in 75-80 days period
- The low yield could be ascribed to early withdrawal of monsoon, which does not allow proper growth and development of the crop, hence potential yield of the variety was not realized.

#### **Crop – Rabi Maize**

- The farmer appreciated variety Bio-9681 and Bio-9682 for their higher yield potential and low damage due to stem borer attack.

#### **Crop –Gram**

- The Gram variety Pratap Chana 1 matured in 100-105 days and the bright yellow seed of the variety fetched higher prices for farmer.

#### **Analytical Review of component demonstrations**

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Wheat	Rabi 2014-15	Weed management (Clodinafop 4%+Metsulfuron methyl 1%) No of demo-100(40ha)	Irrigated	Result awaited		-

#### **Technical Feedback on the demonstrated technologies**

S. No	Feed Back
1	The black gram variety PU-31, matured in 75-80 days period
2	The soybean variety JS 95-60, matured in 85-90 days period

#### **Farmers' reactions on specific technologies**

S. No	Feed Back
1	The black gram variety PU-31, matured in 80-90 days period, farmer appreciated early maturity of the crop.
2	The soybean variety JS 95-60, matured in 85-90 days period farmer appreciated early maturity of the crop

### Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	16	-	867	
2	Farmers Training	10	-	421	
3	Media coverage	6	-	-	
4	Training for extension functionaries	-	-	-	

### Details of FLDs implemented during 2014-15 -Horticultural crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall
					Proposed	Actual	SC/ST	Others	Total	
1	Onion	Export potential of vegetables	Improved seed	Rabi 13	2.0	2.0	10	-	10	-
2.	Tomato	Nursery raising and export potential	Improved seed	Rabi 13	2.0	2.0	8	2	10	-
3.	Brinjal	Nursery raising and export potential	Improved seed	Rabi 13	1.0	1.0	5	-	5	-
4.	Chili	Export potential of vegetables	Improved seed	Zaid 14	2.0	4.0	20	-	20	-
5.	Okra	Off season vegetables	Improved seed	Zaid 14	4.0	8.0	40	-	40	-
6.	Long Melon	Grading and standarization	Improved seed	Zaid 14	2.0	2.0	10	-	10	-
7	Onion	Export potential of vegetables	Improved seed	Rabi 14	2.0	2.0	10	10	10	-
8.	Tomato	Nursery raising and export potential	Improved seed	Rabi 14	2.0	2.0	9	1	10	-
9.	Brinjal	Nursery raising and export potential	Improved seed	Rabi 14	1.0	1.0	5	-	5	-
10.	Chili	Export potential of vegetables	Improved seed	Zaid 15	2.0	4.0	20	-	20	-
11.	Okra	Off season vegetables	Improved seed	Zaid 15	4.0	8.0	40	-	40	-
12.	Long Melon	Grading and standarization	Improved seed	Zaid 15	2.0	4.0	20	-	20	-



### 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					
Onion	Rabi 13	Irrigated	Light black soils	L	L	M	Maize, Soybean	10.10.13 to 25.10.13	26.3.14 to 20.4.14		
Tomato	Rabi 13	Irrigated	Light black soils	L	L	M	Maize, Soybean	26.9.13 to 15.10.13	Fruit picking in different time		
Brinjal	Rabi 13	Irrigated	Light black soils	L	L	M	Maize, Soybean	8.10.13 to 28.10.13	Fruit picking in different time		
Chili	Zaid 14	Irrigated	Light black soils	L	L	M	Maize	19.2.14 to 28.2.14	Fruit picking in different time		
Okra	Zaid 14	Irrigated	Light black soils	L	L	M	Maize	19.2.14 to 26.2.14	Fruit picking in different time		
Long Melon	Zaid 14	Irrigated	Light black soils	L	L	M	Maize	21.2.14 to 28.2.14	Fruit picking in different time		



12	Long Melon (Zaid 2015)	Improved Seed	Chandra	20	4	Result awaited
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**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
81000	75000	309000	245000	228000	170000	3.81
95700	95000	255800	208500	160100	113500	2.67
96500	95000	261650	208500	165150	113500	2.71
107000	91900	214600	171000	107600	79100	2.01
49100	41500	188250	117500	139150	76000	3.83
43100	41500	151725	117500	108625	76000	3.52
75800	68800	312820	197820	237020	129020	4.13
53300	50000	146300	121700	93000	71700	2.74

**Analytical Review of component demonstrations : NIL**

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
		1. Seed/Variety				
		2. Bio-fertilizer				
		3. Fertilizer management				
		4. Plant Protection				
		5. Combination of components (Please specify)				

**Technical Feedback on the demonstrated technologies**

S. No	Feed Back
1	Good variety
2	Application of potassium fertilizer should be promoted in vegetables

### **Farmers' reactions on specific technologies**

S. No	Feed Back
1	Seed provided in all the demonstrations of vegetables is high yielding and gave quality fruits over existing local materials

## Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	3	4.6.14	55	
			30.1.15	48	
			4.3.15	64	
2	Farmers Training	4	26.4.15	42	
			19-21.2.15	39	
			25-27.2.15	37	
			30.3.15	42	
3	Media coverage	3			
4	Training for extension functionaries	-			

### 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		
Serrated Sickle	All crops	200	-	Drudgery reduction	200	-	-	-

**(ii) Livestock, Fisheries, etc.-**

## Livestock

[illegible]



**Other enterprises**

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost	<i>Quality organic manures</i>		43	43	Result awaited												
Apiculture																	
Others (Nutri garden)	Improved seed of vegetables		164	164	Addition of vegetables in the diet	Less vegetable consumption											
<b>Total</b>			<b>207</b>	<b>207</b>													

**Women empowerment- NIL**

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
<b>Women</b>						
Pregnant women						
Adolescent Girl						
Other women						
<b>Children</b>						
Neonates						
Infants						
Children						

**Farm implements and machinery -**

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
Disc harrow	Wheat	Ploughing	-	5	5.0	-	-	-		--	--	--	-	-	--	
Rotavator	Wheat	Ploughing	-	4	5.0	-	-	-		--	--	--	-	-	--	

**Technical Feedback on the demonstrated technologies - NIL**

S. No	Feed Back
1	

**Farmers' reactions on specific technologies- NIL**

S. No	Feed Back
1	

**Extension and Training activities under FLD –NIL**

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days				
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries				

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

### A) ON Campus

[illegible]



[illegible]







[illegible]



Nutrient management										
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	0	0	0	22	4	26	22	4	26
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>6</b>	<b>62</b>	<b>56</b>	<b>6</b>	<b>62</b>
<b>Grand Total</b>	<b>54</b>	<b>46</b>	<b>21</b>	<b>67</b>	<b>1500</b>	<b>228</b>	<b>1728</b>	<b>1546</b>	<b>249</b>	<b>1795</b>

### B) OFF Campus

[illegible]





Production and management technology	1	0	0	0	36	9	45	36	9	45
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	1	0	0	0	22	8	30	22	8	30
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	3	0	0	0	113	28	141	113	28	141
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	5	0	0	0	165	38	203	165	38	203
<b>IV Livestock Production and Management</b>										
Dairy Management	1	0	0	0	26	10	36	26	10	36
Poultry Management	3	0	0	0	99	68	167	99	68	167
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed management	5	30		30	108	45	153	138	45	183
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
<b>V Home Science/Women empowerment</b>										
Household food security by	3	0	0	0	28	121	149	28	121	149





[illegible]

[illegible]



[illegible]



vegetables										
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	2	0	0	0	64	7	71	64	7	71
<b>b) Fruits</b>										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	4	6	3	9	155	34	189	161	37	198
Cultivation of Fruit	2	2	0	2	79	8	87	81	8	89
Management of young plants/orchards	1	0	0	0	37	2	39	37	2	39
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	1	0	0	0	28	0	28	28	0	28
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>e) Tuber crops</b>										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>f) Spices</b>										
Production and Management	1	0	0	0	30	0	30	30	0	30

technology										
Processing and value addition	0	0	0	0	0	0	0	0	0	0
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	1	0	0	0	36	9	45	36	9	45
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	2	0	0	0	42	16	58	42	16	58
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	0	0	0	61	0	61	61	0	61
Production and use of organic inputs	4	0	0	0	141	28	169	141	28	169
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	5	0	0	0	165	38	203	165	38	203
<b>IV Livestock Production and Management</b>										
Dairy Management	1	0	0	0	26	10	36	26	10	36
Poultry Management	5	0	0	0	163	79	242	163	79	242
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	1	0	0	0	35	0	35	35	0	35
Feed management	6	30	0	30	133	45	178	163	45	208
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition	3	0	0	0	28	121	149	28	121	149

gardening										
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	0	0	0	0	31	31	0	31	31
Value addition	3	4	14	18	5	54	59	9	68	77
Income generation activities for empowerment of rural Women	2	0	1	1	0	28	28	0	29	29
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>										
Integrated Pest Management	14	12	2	14	433	113	546	445	115	560





cultivation of vegetable crops										
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	3	3	0	23	23	0	26	26
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>48</b>	<b>48</b>	<b>0</b>	<b>51</b>	<b>51</b>

**(C) Extension Personnel**

Productivity enhancement in field crops	1	0	0	0	34	2	36	34	2	36
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	0	0	0	22	4	26	22	4	26
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>6</b>	<b>62</b>	<b>56</b>	<b>6</b>	<b>62</b>
<b>Grand Total</b>	<b>99</b>	<b>88</b>	<b>23</b>	<b>111</b>	<b>2742</b>	<b>784</b>	<b>3526</b>	<b>2830</b>	<b>807</b>	<b>3637</b>

**Details of above training programmes as Annexure in the proforma given below**

**On campus trainings**

Date	Client	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	
							M	F	M	F	M	F
22-23.05.14	PF	Integrated pest management in summer green gram	Crop production	Integrated pest management	2	On campus	-	-	38	-	38	-
11-12.06.14	PF	Integrated pest management in BT cotton and soybean	Crop production	Integrated pest management	2	On campus	-	-	35	-	35	-
26.6.14	PF	Improved cultivation techniques of Blackgram	Crop production	Integrated crop management	1	On campus	-	-	72	2	72	2
30.06.14	PF	Improved cultivation techniques of Soybean	Crop production	Integrated crop management	1	On campus	-	-	37	3	37	3
01.07.14	PF	Improved cultivation techniques of blackgram	Crop production	Integrated crop management	1	On campus	-	-	32	-	32	-
2.07.14	PF	Improved cultivation techniques of Soybean	Crop production	Integrated crop management	1	On campus	-	-	45	6	45	6
3.7.14	PF	Improved cultivation techniques of blackgram	Crop production	Integrated crop management	1	On campus	-	-	44	1	44	1
4.7.14	PF	Improved cultivation techniques of Soybean	Crop production	Integrated crop management	1	On campus	14	-	16	2	30	2
4.7.14	PF	Improved cultivation techniques of Soybean	Crop production	Integrated crop management	1	On campus	5	-	12	3	17	3
5.7.14	PF	Improved cultivation techniques of Soybean	Crop production	Resource conservation	1	On campus	-	-	38	7	38	7
11.7.14	PF	Improved cultivation techniques of Maize	Crop production	Integrated crop management	1	On campus	-	-	23	3	23	3
5-6.8.14	PF	Integrated pest management in Soybean and Blackgram	Crop production	Integrated pest management	2	On campus	-	-	21	-	21	-
9-10.10.14	PF	Cultivation of gram through improved technology	Crop production	Integrated crop management	2	On campus	-	-	28	-	28	-
29.10.14	PF	Major impact points of productivity enhancement of gram	Crop production	Integrated crop management	1	On campus	-	-	28	-	28	-
30-31.11.14	PF	Cultivation of gram through improved technology	Crop production	Integrated crop management	2	On campus	-	-	28	2	28	2



3.11.14	PF	Technological interventions in rabi maize at critical stages of crop	Crop production	Integrated crop management	1	On campus	-	-	18	9	18	9
5.11.14	PF	Cultivation of gram through improved technology	Crop production	Integrated crop management	1	On campus	-	-	31	4	31	4
7.11.14	PF	Technological interventions in rabi maize at critical stages of .....	Crop production	Integrated crop management	1	On campus	7	-	13	-	20	-
14-15.11.14	PF	Improved cultivation of wheat to increase productivity	Crop production	Integrated crop management	2	On campus	7	-	18	-	25	-
27-29.11.14	PF	Integrated weed management in important rabi crops	Crop production	Integrated weed management	3	On campus	-	-	35	-	35	-
28-30.01.15	PF	Integrated pest management in important rabi crops	Crop production	Integrated pest management	3	On campus	-	-	42	3	42	3
10.3.15	PF	Improved cultivation techniques of greengram (summer)	Crop production	Integrated crop management	1	On campus	-	-	22	-	22	-
18.03.15	PF	Improved cultivation techniques of greengram (summer)	Crop production	Integrated crop management	1	On campus	-	-	45	-	45	-
30.3.15	PF	Improved cultivation techniques of greengram (summer)	Crop production	Integrated crop management	1	On campus	-	-	27	-	27	-
24-25.4.14	PF	Protected cultivation of vegetables	Horticulture	Protective cultivation	2	On campus	-	-	27	5	27	5
5-6.6.14	PF	Layout and canopy management of mango	Horticulture	Layout and management of orchards	2	On campus	5	3	33	2	38	5
12-14.8.14	PF	High density plantation of fruit crops	Horticulture	Cultivation of fruits	3	On campus	2	-	42	1	44	1
17-18.10.14	PF	Micro irrigation in horticultural crops	Horticulture	Micro irrigation system	2	On campus	-	-	28	-	28	-
30.10.14	PF/F W	Improved cultivation techniques of coriander	Horticulture	Production and management technology of spices	1	On campus	-	-	30	-	30	-
17.11.14	PF	Mulching in horticultural crops	Horticulture	Mulching in horticultural crops	1	On campus	-	-	37	2	37	2
19-21.2.14	PF	Improved cultivation techniques of cucurbits	Horticulture	Cultivation of vegetables	3	On campus	-	-	31	8	31	8
25-27.2.14	PF	Precision farming of chilli	Horticulture	Cultivation of vegetables	3	On campus	-	-	37	-	37	-

23-24.4.14	PF	Feed and fodder management	Animal Science	Feeding management	2	On campus	-	-	25	-	25	-
5-7.08.14	PF	Backyard poultry production for socio economic class	Animal Science	Poultry production	3	On campus	-	-	39	5	39	5
23-25.2.14	PF	Livelihood and nutritional security through back yard poultry	Animal Science	Poultry management	3	On campus	-	-	27	6	27	6
11-13.3.15	PF	Infectious diseases and its control in lactating animals	Animal Science	Disease management	3	On campus	-	-	35	-	35	-
16-17.6.2014	PF	Integrated nutrient management in major kharif crops	Soil Science	Integrated nutrient management	2	On campus	-	-	30	-	30	-
31.10.14-1.11.14	PF	Integrated nutrient management in major rabi crops	Soil Science	Integrated nutrient management	2	On campus	-	-	31	-	31	-
9-11.3.15	PF	Improved techniques for preparation of organic manures and their use method	Soil Science	Production of organic inputs	3	On campus	-	-	28	-	28	-
5.5.14	FW	Mango processing	Home Science	Value addition	1	On campus	-	-	3	28	3	28
6.5.14	FW	Mango processing	Home Science	Value addition	1	On campus	2	13	-	1	2	14
9-10.6.14	FW	Mango processing	Home Science	Value addition	2	On campus	2	1	2	25	4	26
4.7.14	FW	Entrepreneurship development by jewellery making	Home Science	Women empowerment	1	On campus	-	1	-	15	-	16
17-19.8.14	FW	Bag making	Home Science	Women empowerment	3	On campus	-	-	-	13	-	13
27-28.6.14	PF	Construction and preparation of fish ponds	Fisheries	Fish pond construction	2	On campus	-	-	14	-	14	-
5-8.8.14	PF	Breeding of exotic fish species	Fisheries	Seed production	4	On campus	-	-	21	8	21	8
18-19.12.14	PF	Integrated fish farming	Fisheries	Production system	2	On campus	-	-	42	-	42	-

## Off campus trainings

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue	Number of other participants		Number of SC/ST		Total number of participants	
							M	F	M	F	M	F
2.5.14	PF	Integrated pest management in zaid Greengram	Crop production	IPM	One	Jalimpura	-	-	19	32	19	32
6.5.14	PF	Safe seed storage	Crop production	IPM	One	KVK, Borwat	-	-	19	-	19	-
1.8.14	PF	SRI technique of paddy cultivation	Crop production	RCT	One	Malwasa	-	-	27	10	27	10
5.8.14	PF	Weed management in soybean and blackgram	Crop production	IPM	One	Kuwania	-	-	33	12	33	12
27.8.14	PF	Integrated pest management in soybean	Crop production	IPM	One	Nagwala	12	2	15	2	27	4
28.8.14	PF	Pest management in soybean and blackgram (RKVY)	Crop production	IPM	One	Bhompada	-	-	48	8	48	8
3.9.14	PF	Pest management in soybean and blackgram (RKVY)	Crop production	IPM	One	Azgariapada	-	-	31	6	31	6
15.9.14	PF	Pest management in soybean and blackgram (RKVY)	Crop production	IPM	One	Lambaghata	-	-	58	9	58	9
7.1.15	PF	Irrigation management in important rabi crops	Crop production	IPM	One	Chekla	-	-	29	22	29	22
23.1.15	PF	Integrated pest management in Gram	Crop production	IPM	One	Chunakhera	-	-	20	8	20	8
24.1.15	PF	Weed management in wheat	Crop production	ICM	One	Nagwala	-	-	15	5	15	5
27.1.15	PF	Integrated pest management in Gram	Crop production	IPM	One	Chayana	-	-	25	11	25	11
26.4.14	PF	Protection of summer vegetables against high temperature	Horticulture	Protective cultivation	One	Baladiya	-	-	26	16	26	16

17.6.14	PF	Layout of mango orchard	Horticulture	Layout and management in orchards	One	Khokarwa	-	-	62	17	62	17
16.8.14	PF	Bahor regulation in guava	Horticulture	Management of orchards	One	Amarthoon	-	-	16	15	16	15
15.1.15	PF	Low tunnel cultivation	Horticulture	Vegetable production	One	Chunakhora	-	-	28	13	28	13
18.2.15	PF	Plant protection in winter vegetables	Horticulture	Vegetable production	One	Kadwa Aomri	-	-	45	-	45	-
23.2.15	PF	Meadow orcharding in guava	Horticulture	Fruit production	One	Chayyana	-	-	37	7	37	7
11.3.15	PF	Production technology of Aloe-vera	Horticulture	Medicinal and aromatic plant production	One	Charpotapada	-	-	36	9	36	9
30.3.15	PF	Plant protection measures in zaid vegetables	Horticulture	Vegetable production	One	Gulabpara	-	-	32	10	32	10
28.4.14	PF	Feeding management in cattle and buffaloes	Animal Science	Feeding management	One	Sagwadia	20	-	32	2	52	4
17.7.14	PF	Feeding management of animal in drought condition	Animal Science	Feeding management	One	Garhi	10	-	9	1	19	1
21.7.14	PF	Feeding management of animal in drought condition	Animal Science	Feeding management	One	Danpur						
2.8.14	PF	Care and management of pregnanat cattle	Animal Science	Feeding management	One	Amarthoon	-	-	37	25	37	25
26.8.14	PF	Care and management of pregnanat buffalo	Animal Science	Feeding management	One	Tanda	-	-	30	17	30	17
16.2.14	PF	Backyard poultry management	Animal Science	poultry management	One	Kuwania	-	-	27	6	27	6
19.2.14	PF	Care and management of breeding bucks	Animal Science	Breeding management	One	Amathoon	-	-	26	10	26	10
2.3.15	PF	Backyard poultry management	Animal Science	poultry management	One	Bildi	-	-	50	21	50	21
3.3.15	PF	Backyard poultry management	Animal Science	poultry management	One	Goika	-	-	22	41	22	41

25.4.14	PF	Method of soil sampling	Soil Science	Soil and water testing	One	Subhash Nagar	-	-	30	2	30	2
13.6.14	PF	Importance and use of organic manures	Soil Science	Production of organic inputs	One	Kuwania	-	-	49	5	49	5
11.9.14	PF	Vermicompost production technique	Soil Science	Production of organic inputs	One	Amarthoon	-	-	17	10	17	10
26.3.15	PF	Use of Gypsum in agriculture	Soil Science	Management of problematic soils	One	Amarthoon	-	-	22	8	22	8
16.3.15	PF	Importance and use of bio fertilizers	Soil Science	Organic inputs	One	Bhompada	-	-	47	13	47	13
2.5.14	FW	Safe grain storage	Home Science	Post harvest management	One	Jalimpura	-	-	-	31	-	31
2.8.14	FW	Importance of vegetables in diet	Home Science	Household food security by nutrition gardening	One	Amarthoon	-	-	8	27	8	27
23.8.14	FW	Layout of nutri garden	Home Science	Household food security by nutrition gardening	One	Charpotapada	-	-	-	58	-	58
25.8.14	FW	Layout of nutri garden	Home Science	Household food security by nutrition gardening	One	Lambaghata	-	-	20	36	20	36
26.6.14	PF	Fish pond preparation	Fisheries	Nursery	One	Bhudanpura	-	-	21	4	21	4
8.8.14	PF	Nursery pond preparation	Fisheries	Nursery	One	Sagwadia	-	-	8	4	8	4
26.1.14	PF	Management of fish culture ponds	Fisheries	Pond	One	Sageta	-	-	20	1	20	1

**(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	
Value addition	13-17.1.15	Value addition in horticultural crops	Value addition	5	-	26	26				
Crop Production	9-13.2.15	Improved cultivation technologies of zaid Green gram and IPM	Integrated pest management	5	25	-	25				
Entrepreneurship development	17-22.8.14	Training on bag making	Entrepreneurship development	6	-	23	23	Tailoring shop	2	2	
Entrepreneurship development	29.5.14 to 30.6.14	Cutting and tailoring	Entrepreneurship development	30	-	25	25				
Entrepreneurship development	29.5.14 to 30.6.14	Cutting and tailoring	Entrepreneurship development	30	-	25	25				

**(E) Training programme for Extension functionaries**

Discipline	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Client (PF/RV/EF)
					Male	Female	Total	
Animal Science	17.7.14	Fodder production	Fodder production	1	22	4	26	EF
Multidisciplinary	23-24.9.14	Integrated farming	Integrated farming	2	34	2	36	EF

## (F) Sponsored Training Programmes

Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/RY/EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							Others			SC/ST			Total				
							Male	Female	Total	Male	Female	Total	Male	Female	Total		
18.6.14	Integrated farming system	Crop production	Integrated crop management	1	PF	1	-	-	-	33	-	33	33	-	33	NGO	
17-18.9.14	Sustainable agriculture	Soil Science	Sustainable farming	2	PF	1	-	-	-	33	-	33	33	-	33	NGO	
17.9.14	Integrated farming system	IFS	Integrated farming system	1	PF	1	-	-	-	2	27	29	2	27	29	NGO	
10-12.2.15	Nursery orchard and post harvest management of subtropical fruits for quality production	Horticulture	subtropical fruits	3	PF	1	1	-	1	44	-	44	45	-	45	CISH, Lucknow	
28.2.15	Organic farming	Soil Science	Organic farming	1	PF	1	---	--	-	20	8	28	20	8	28	NGO	

### 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	Field day on Maize/ 25.4.14	1	-	-	-	22	11	33	4	-	4	26	11	37
		Field day on summer Greengram/ 28.5.14	1	-	-	-	25	28	53	3	-	3	28	28	56
		Field day on summer Greengram/ 4.6.14	1	-	-	-	41	27	68	5	1	6	46	28	74
		Field day on Okra/ 4.6.14	1	-	-	-	34	15	49	5	1	6	39	16	55
		Field day on Blackgram/ 30.9.14	1	-	-	-	74	-	74	3	-	3	77	-	77
		Field day on Blackgram/ 1.10.14	1	-	-	-	28	7	35	3	-	3	38	-	38
		Field day on Blackgram/ 1.10.14	1	-	-	-	30	13	43	3	-	3	46	-	46
		Field day on Soybean/ 7.10.14	1	-	-	-	26	14	40	3	-	3	29	14	43
		Field day on Maize/ 7.10.14	1	-	-	-	26	14	40	3	-	3	29	14	43
		Field day on Soybean/ 7.10.14	1	-	-	-	19	19	38	3	-	3	22	19	41
		Field day on Gram/ 18.2.15	1	-	-	-	27	22	49	3	-	3	30	22	52
		Field day on Gram/ 24.2.15	1	-	-	-	57	12	69	3	-	3	60	12	72
		Field day on Gram/ 25.2.15	1	-	-	-	38	20	58	4	-	4	42	20	62
		Field day on Tomato / 4.3.15	1	-	-	-	45	15	60	4	-	4	49	15	64
		Field day on Gram/ 4.3.15	1	-	-	-	44	11	55	4	-	4	48	11	59
		Field day on Brinjal/ 30.1.15	1	-	-	-	36	8	44	4	-	4	40	8	48
	<b>Total</b>		<b>16</b>				<b>572</b>	<b>236</b>	<b>808</b>	<b>57</b>	<b>2</b>	<b>59</b>	<b>649</b>	<b>218</b>	<b>867</b>
2.	Kisan Mela	Livelihood security for small & tribal farmers (MPUAT Kisan Mela 14.3.15)	1	825	145	970	950	155	1105	110	40	150	1885	340	2125
	<b>Total</b>		<b>1</b>	<b>825</b>	<b>145</b>	<b>970</b>	<b>950</b>	<b>155</b>	<b>1105</b>	<b>110</b>	<b>40</b>	<b>150</b>	<b>1885</b>	<b>340</b>	<b>2125</b>





16	Advisory Services														
17.	Scientist visit to farmers field	Weed in Soybean and Blackgram	8.8.14	-	-	-	5	-	5	2	-	2	7	-	7
		Mago malformation Attack of termite Trunk of mango	14.10.14	-	-	-	4	3	7	2	-	2	6	3	9
		Poor nutrient management in mango and other fruit plants	14.10.14	-	-	-	4	3	7	2	-	2	6	3	9
	<b>Total</b>		<b>3</b>	<b>-</b>			<b>13</b>	<b>6</b>	<b>19</b>	<b>6</b>	<b>-</b>	<b>6</b>	<b>19</b>	<b>6</b>	<b>25</b>
18.	Farmers visit to KVK	612	612	132	7	139	824	136	960	12	2	14	968	145	1113
19.	Diagnostic visits	-													
	Total	-													
20.	Exposure visits	3	3	-	-	-	140	-	140	6	-	6	146	-	146
21.	Ex-trainees Sammelan	2	2	5	12	17	38	24	62	-	-	-	43	36	79
22.	Soil health Camp	3.4.14	1	-	-	-	7	21	28	6	4	10	13	25	38
		6.5.14	1	-	-	-	13	35	48	4	-	4	17	35	52
23.	Animal Health Camp	-													
24.	Agri mobile clinic	-													
25.	Soil test campaigns	8.10.14	1	-	-	-	59	5	64	3	-	3	62	5	67
		7.11.14	1	-	-	-	50	-	50	3	-	3	53	-	53
26.	Farm Science Club Conveners meet	-													
27.	Self Help Group Conveners meetings	2	2	-	3	3	-	23	23	1	1	2	1	27	28



<b>Number of Technology weeks celebrated</b>	<b>Types of Activities</b>	<b>No. of Activities</b>	<b>Numaber of Participants</b>	<b>Related crop/livestock technology</b>
1	Gosthies	5	455	Integrated farming
	Lectures organised	5	455	Crop production
	Exhibition	5	455	KVK exhibition
	Film show	5	422	Integarted farming
	Fair	-		-
	Farm Visit	5	455	KVK demonstration units
	Diagnostic Practicals	2	110	Seed treatment
	Distribution of Literature (No.)	-	-	-
	Distribution of Seed (q)	-	-	-
	Distribution of Planting materials (No.)	-	-	-
	Bio Product distribution (Kg)	-	-	-
	Bio Fertilizers (q)	-	-	-
	Distribution of fingerlings	-	-	-
	Distribution of Livestock specimen (No.)	-	-	-
	Total number of farmers visited the technology week	1	455	

## Kisan Mobile Advisory

No. of Farmers registered :

Details of SMS

Content Category	No. of Messages	No. of Farmers	Feed back of farmers if any	
Crop Production	15	22320		
Crop Protection	1	1488		
Livestock & Fisheries Advisory	2	2976		
Weather Advisory	2	2976		
Market Information	-			
Events Information	3	4464		
Input availability	1	1488		
Others (specify)	-			
<b>Total</b>	<b>24</b>	<b>35712</b>		

### Introduction of alternate crops/varieties

Major area coverage under alternate crops/varieties

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

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

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

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

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

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

### 3.5 Production and supply of Technological products

#### SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Wheat	Raj-4079	30	45000	
	Maize	S6217	80	96000	
		HQPM-1	20	24000	
	Sweet corn	Sugar-75	7	14000	
OILSEEDS	Soybean	JS 93-05	14.9	74500	
	Soybean	JS 95-60	15.95	79750	
PULSES	Greengram	SML-668	1.3	16900	
	Blackgram	PU-31	2.25	11250	
		Pratap Urd-1	2	10000	
		Gujrat Urd-1	2	10000	
	Gram	PC-1	12	48000	
		RVG-202	6	24000	
		JG-11	1	4000	
VEGETABLES	Tomato	Dev	2.25q	4500	110
FLOWER CROPS		Pusa basanti and Pusa narangi	200 kg	4000	20
		Pusa narangi	298.5 kg	5970	25
		Pusa basanti seed	400 gm	800	16
FRUIT	Mango	Mallika, langra, dashehari etc	50 q	60000	500
	Guava	L-49, Allahbad safeda	150q	100786	900
	Aonla	NA-7	4q	3100	200
	Lemon	Kagzi	1q	1000	88
OTHERS (Green fodder)	Barseem	Bundel barseem-3	24	2400	

#### SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	137.0	179000	-
2	OILSEEDS	30.85	154250	-
3	PULSES	26.55	124150	-
4	VEGETABLES	2.25	4500	110
5	FLOWER CROPS	5.0	10770	61
6	FRUITS	205	164886	1688
7	OTHERS	24	2400	-
<b>TOTAL</b>		<b>430.65</b>	<b>639956</b>	<b>1859</b>

#### PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Mango	Mallika	4744	189760	55
		Dashehari	3120	124800	28
		Langra	519	20760	17
		Kesar	211	8440	8
		Amrapali	494	19760	6
		Banganpalli	70	2800	3
		Chausa	200	8000	2

FRUITS	Guava	L-49(Gootee)	2600	91000	40
		L-49 (Budded)	2300	80500	67
		L-49 (Seeded)	3000	60000	4
	Lemon	Kagzi(Gootee)	1730	60550	84
		Kagzi(Seeded)	1500	30000	5
	Sapota	Kalipatti	450	18000	11
	Pomegranate	Mradula	4200	84000	210
	Papaya	Red lady-786	1500	22500	58
	Aonla	NA-7	300	12000	1
SPICES	-				
VEGETABLES	-				
FOREST SPECIES	-				
ORNAMENTAL CROPS	Rose	Ganganagri red	500	2500	20
	Marigold	Pusa Narangi	400 gm	800	16
	-	Seedlings	1000	160	10
PLANTATION CROPS	-				
Others (specify)	-				

## SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	26938	832870	599
2	VEGETABLES	-		
3	SPICES	-		
4	FOREST SPECIES	-		
5	ORNAMENTAL CROPS	1900gram	3460	61
6	PLANTATION CROPS	-		
7	OTHERS	-		
	<b>TOTAL</b>			

## BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
ORGANIC MANNURES	Vermicompost	organic manure	-	7205	36025	7
	Vermis	Isenia foetida	-	236.5	46975	118
BIOAGENTS						
BIOFERTILIZERS						
BIO PESTICIDES						



SUMMARY						
Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
4	Organic manures					
	a. Vermicompost	organic mannure		7205	36025	7
	b. Vermis	Isenia foetida		236.5	46975	118
	<b>TOTAL</b>			<b>7441.5</b>	<b>83000</b>	<b>125</b>

### LIVESTOCK

S. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
Cattle						
SHEEP AND GOAT						
POULTRY						
FISHERIES						
Others (Specify)						

SUMMARY						
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Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	<b>TOTAL</b>					

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

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


(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Knowledge Assessment : vegetable cultivation technology promoted under NAIP for tribal women (Indian journal of social research Sept-Oct 2014 Vol. 55 (5), pp 659-664)	Rashmi Dave Asha Godawat Mamta Kumari	
	Adoption of technologies on vegetable cultivation by tribal women residing at Banswara district, Rajasthan (Advances in applied research, May 2014, Vol 6, No.1, PP 86-89, www.indianjournals.com)	Rashmi Dave Asha Godawat R.L.Soni Narpat Singh	
	Adoption of chilli crop production technology promoted under NAIP in tribal women of Banswara district of Rajasthan (Indian journal of social research July- Aug 2014 Vol. 55 (4), pp 569-575)	Rashmi Dave Narpat Singh	
<b>Total</b>	<b>3</b>		
Technical reports	Annual Progress Report		Dr. R.L.Soni Dr.G.L.Kothari And Rashmi Dave
	Quarterly Progress Report		
	Monthly Progress Report		
	ZREAC Rabi 2013-14		
	ZREAC Rabi 2014		
	SAC Report		
<b>Total</b>	<b>6</b>		
Popular articles	Aam prasanskan utpad: Badhaye rojgar (Krishi Amrit, May 2014, Vol 19, PP 7)	Rashmi Dave	
	Tailor ladies prashikshan ne bhare jeevan me khushiyo ke rang: safal kahani ( Rajasthan Kheti Pratap, April 2014, Vol 10, pp 28-30 )	Rashmi Dave Dr. R.L.Soni	
	Choti jot ka bada kisan, Kaluram: Safal Kahani ( Rajasthan Kheti Pratap, June 2014, Vol 12, pp 30 )	Dr. Ramawtar Dr. G.L.Kothari Dr. Ranjeet Singh	
	Sardiyo me hone wali bimariya avam upchar ( Rajasthan Kheti Pratap, January 2015)	Dr. H.L.Bugalia Bheru Lal Dangi	
Leaflets/folders	KVK, Banswara training calendar	Dr. Ranjeet Singh Dr. H.L.Bugalia Dr. R.L.Soni	250
Technical booklet	Jiwansh khado ka nirman avam upyog	Dr. Ranjeet Singh	1000
Booklet	-		230
Total	15		
<b>Grand TOTAL</b>	<b>15</b>		

(C) Details of Electronic Media Produced: Nil

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
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## Success stories:

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

- Name of farmer
- Title of innovations
- Description of innovation
- Practical utility
- Application of innovations
- Activities conducted for wise spread

**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	Animal Husbandry	Use of Asafoetida in curing of bloating in cattle	Curing of bloating
2	Crop Production	Dusting of wooden ash on infected crops.	For treatment insect affected crops & vegetables
		Sowing of maize & paddy mixture in case of low rainfall the maize crop survives if high rain falls more than paddy gives profit.	To save the time or contingent plan
3	Home Science	Use of Neem leaves in storage of grains.	Save grains

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

- Identification of courses for farmers/farm women  
Participatory rural appraisal (PRA)  
Questionnaire
- Rural Youth  
PRA Technology  
Questionnaire
- Inservice personnel  
Meeting  
Discussion with ZD, DD, AD and other line department  
Interviews

**3.11 Field activities**

- |                                   |   |      |
|-----------------------------------|---|------|
| i. Number of villages adopted     | : | 36   |
| ii. No. of farm families selected | : | 4000 |
| iii. No. of survey/PRA conducted  | : | 8    |

**3.12. Activities of Soil and Water Testing Laboratory**

Status of establishment of Lab : Working

**1. Year of establishment : 2010**

**2. List of equipments purchased with amount : NIL**

S. No.	Name of the Equipment	Qty.	Cost (Rs)

**3. Details of samples analyzed so far :**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	631	604	54	5730
Water Samples	2	2	2	20
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
<b>Total</b>	<b>633</b>	<b>606</b>	<b>56</b>	<b>5750</b>

#### 4.0 IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Seed Replacement	1200	100	8500	9800
Balance Fertilizer	600	68	5500	6500
Seed Treatment	700	32	7000	9500
Introduction of Vegetables	400	68	10000	14000

##### Cases of large scale adoption

- (i). ST with endosulfan in wheat or termite control.
- (ii). Use of Azotobacter culture, PSB, Rhizobium culture in cereal, oilseed and pulses crop.
- (iii). Azola plantation in large scale.

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

- (i) Through FLD programme yield increases 25-30% in oilseed crop and increase of pulses crop 20-80%
- (ii) 20-25% yield increases through refinement of existing technology by solving local problem in agriculture through OFT e.i Trichoderma for the control of wilt in chickpea, increase yield and soil fertility through vermin composting and bio fertilizer.
- (iii) Bee- keeping earning Rs. 60,000- 70,000 from twenty colonies.

S. N.	Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
				Before (Rs./Unit)	After (Rs./Unit)
1	Crop production technology, improved seed, fertilizer application, sowing method, irrigation schedule, PP measure, vermicompost etc	80	80	8000	12000
2	Production practices in cows, buffaloes and goats	80	80	5000	6000
3	Horticulture activities— orchard development, vegetable production	80	70	16000	22000
4	Home Science – Sticking, kitchen gardening, food processing	50	48	2000	5000
5	Soil test based fertilizer recommendation	80	70	3000	3300
	Horizontal expansion of FLD technologies	Seed of our recommended varieties demanded have been increase in neighboring villages			

#### 5.0 LINKAGES

##### 5.1 Functional linkage with different organizations

S.	Name of Organizations	Nature of Linkage
1.	Agriculture Research Station, Banswara	Recourse person in training and farmers scientist interaction in different occasion
2.	Deptt. of Agriculture (GOR),	Training and Extension activities

	Banswara	
3.	Deptt. of Horticulture (GOR), Banswara	Training and Extension activities
4.	Deptt. of Soil Conservation	Training and Extension activities
5.	Deptt. of Animal Husbandry	Training and Extension activities
6.	Deptt. of Women and Child Welfare	Training and Extension activities
7.	Gramin Vikas Trust	Joint implementation of the extension activities & consultancy
8.	SWACH Pariyojna	Training extension activities
9.	Progress Santha	Joint implementation of the extension activities
10.	World Vision	Joint implementation of the extension activities
11.	Rajasthan State seed corporation	Seed production programme & information exchange
12.	KRIBHCO/ IFFCO	Joint implementation of extension activities
13.	ASSEF (NGO)	Joint implementation of extension activities
14.	BAIF (NGO)	Joint implementation of extension activities
15.	Chambal Fertilizer	Joint implementation of extension activities
16.	AIR Banswara	Broadcasting radio talks

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)

**5.3 Details of linkage with ATMA**

a) Is ATMA implemented in your district **Yes**

S. No.	Programme	Nature of linkage	Remarks
1	Farmers Training	Training & Meetings, Exposure Visit.	

**5.4 Give details of programmes implemented under National Horticultural Mission : NIL**

S. No.	Programme	Nature of linkage	Constraints if any

**5.5 Nature of linkage with National Fisheries Development Board : NIL**

S. No.	Programme	Nature of linkage	Remarks

**6. PERFORMANCE OF INFRASTRUCTURE IN KVK**

**6.1 Performance of demonstration units (other than instructional farm)**

Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
			Variety	Produce	Qty.	Cost of inputs	Gross income	

Vermi compost unit	2010	8 pits of size 1.6 x 1.0 x 0.50 m	<i>Isenia foetida</i>	Vermi compo st	7205 kg	-	36025	Used in horticul ture nursery and farm
				Vermis	236.5 kg	-	46975	-



## 6.2. A Performance of instructional farm (Horticulture) including seed production

Name fruit plant/ veg./flower crop	Variety	Area (ha)	Production (No/Qty.)	Already Sold out (Nos/Qty)	Value of Sold item (Nos/Qty)	Balance stock Nos/Qty)	Value of balance item (Rs.)	Total cost of input (Rs.)
Mango grafted plants	Dasheri, Mallika, Langra, Kesar	2.0	9358 Nos	4604 Nos	18460	4754 Nos	190160	Cost of on contracts farm works (Labourer) + Different fruit, vegetable & flower seeds cost + F.Y.M. cost + Fertilizers cost + Cost of insecticides, fungicides, herbicides growth regulator + Fruit plants purchased + Gunny bags, mossgrass, mango stone purchased + Diesel, Petrol, Oil ,Kerosene purchased + Electric motors
Mango (Root- stock)	Deshi	-	2000 Nos	-	-	2000 Nos	10000	
Guava air layering Plants	L-49	1.5	2600 Nos	1000 Nos	35000	1600 Nos	56000	
Guava patch budding	L-49	-	2300 Nos	1343 Nos	47005	957 Nos	33495	
Guava seeded	L-49		3000 Nos	146 Nos	2920	2854 Nos	57080	
Lemon air layering plants	Kagzi		1730 Nos	844 Nos	29540	886 Nos	31010	
Lemon seeded	Kagzi	-	1500 Nos	97 Nos	1940	1403 Nos	28060	
Papaya seeded plants	Red lady-786 (Taiwan)	-	1500 Nos	583 Nos	8745	917 Nos	13755	
Pomegranate	Mradula	-	4200 Nos	4000 Nos	80000	200 Nos	4000	
Sapota grafted plants	Kalipatti	-	450 Nos	109 Nos	4360	341 Nos	13640	
Aonla budded plants	NA-7	-	300 Nos	1 Nos	40	299 Nos	11960	
Mango ripe fruits	Dasheri, Mallika, Langra, Kesar, Rajbog, Alphonso, Amrapali, Bombay green etc.	1.25	Sold by auction (50 qtl)	Sold by auction	60000	-	-	
Guava fruits	L-49	1.0	Sold by auction (150 qtl)	Sold by auction	100786	-	-	
Aonla fruits	Chakaiya, Banarasi, NA-7	0.3	Sold by auction (4.0 qtl)	Sold by auction	3100	-	-	

Mari gold seedling	Pusa narangi		110 Nos	110 Nos	170	-	-	reparing & purchase cost + Electricity bills of electric motors + Tractor parts, reparing & maintenance + Miscellaneous purchases & expenses total cost of input
Marigold flowers	Pusa narangi, Pusa basanti	-	498.5 kg	498.5 kg	9970	-	-	
Tomato	Dev	0.01	225Kg	225 kg	4500	-	-	
Ornamental plants (Rose, croton etc)	Ganganagri red		500 Nos	100Nos	1000	400 Nos	4000	
Eucalyptus trees	Eucalyptus		Sold by auction (20 Nos)	Sold by auction	48000	-	-	
<b>Total</b>					<b>621236</b>		<b>453160</b>	<b>597215</b>

### 6.2. B 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.(q)	Cost of inputs	Gross income	
Soybean	22-07-2014	30-10-2014	0.8	JS 93-05	NS TO BS	11.10	466424	83250	
Soybean	15-07-2014	20-10-2014	0.9	JS 93-05	NS TO BS				
Soybean	22-07-2014	15-10-2014	1.0	JS 95-60	FS TO TL	15.00		55000	
Soybean	21-07-2014	16-10-2014	0.3	JS 95-60	TL TO TL				
Soybean	21-07-2014	14-10-2014	0.4	JS 95-60	TL TO TL				
Blackgram	21-07-2014	08-10-2014	0.4	Gujrat urd-1	BS TO TL	1.80		45375	
Blackgram	21-07-2014 & 01-08-2014	30-10-2014	0.6	PU-31	TL TO TL	2.25			
Blackgram	21-07-2014	13-10-2014	0.4	Pratap urd-1	BS TO TL	2.00			
Paddy	18-07-2014	18-11-2014	0.4	Pusa Sugandh-5	TL TO TL	1.35		9450	
Gram	21.10.2014	23.2.2015	0.31	Pratap Chana-1	TL Seed	9.50		61750	
Gram	2.11.2014	28.2.2015	0.60	Pratap Chana-1	TL Seed				
Gram	7.11.2014	6.3.2015	0.50	Pratap Chana-1	TL Seed				
Gram	20.11.2014	18.3.2015	0.40	RVG-202	TL Seed	4.50		29250	
Gram	21.11.2014	11.3.2015	0.10	JG-11	TL Seed	0.85		5525	
Linseed	29.11.2014	4.4.2015	0.35	Pratap Linseed -2	TL Seed	3.50		17500	
Berseem	5.12.2014	24.4.2015	0.50	Bundel Berseem -3	TL Seed	0.35		1050	
Wheat	17.12.2014	8.4.2015	0.80	Raj-4079	TL Seed	27.00		67500	
Maize	12.12.2014	30.4.2015	0.90	S-6217	Commercial	Result awaited			
Maize	12.12.2014	30.4.2015	0.10	S-6217	Commercial				
Maize	17.12.2014	2.5.2015	0.30	HQPM-1	Commercial				

## 6.4 Performance of instructional farm (livestock and fisheries production)

## **6.5 Rainwater Harvesting**

[illegible]

## 6.5 Utilization of hostel facilities

Accommodation available (No. of beds) : 30

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	Kisan hostel occupied by district Collector for staying of reserve force for lok sabha election-2014	70	23	
May 2014	Kisan hostel occupied by District Collector for staying of reserve force for lok sabha election-2014	70	28	
June 2014	Layout and canopy management of mango	3	1	
	Construction and preparation of fish pond for rearing of fish	9	1	
July 2014	Nil	Nil	Nil	Only one day training is organized
August 2014	Back yard poultry rearing by socially backyard classes	25	2	
	High density planting of fruit crops	4	2	
September 2014	Sustainable Agriculture	33	1	
October 2014	Improved techniques of vegetable productions ( SHG )	42	2	
	Gram Production Technology	28	1	
November 2014	Wheat Production Technology	16	1	
	Integrated weed management for major <i>rabi</i> crops	14	2	

	INM in major rabi crops	17	1	
December 2014	Exposer visit	50	2	
	Exposer visit	50	1	
	Exposer visit	40	1	
	Exposer visit	45	1	
	Integrated fish farming	31	1	
January 2015	Nil	Nil	Nil	
February 2015	Improved Cultivations techniques Of zaid Moong cultivation and IPM	15	4	
	Subtropical Fruit Production techniques (CIHS,lucknow)	17	2	
	Improved cultivation techniques of Cucurbits	2	1	
March 2015	Precision farming on chilli	11	2	
	Integrated farming system	17	4	
	Infectious diseases and its control	33	2	
	Visit purpose	3	4	
	Production technology of fruit crops (NHM)	12	1	
	Production technology of fruit crops (NHM)	9	1	
	Integrated farming system	17	4	

## **7. FINANCIAL PERFORMANCE**

### **7.1 Details of KVK Bank accounts**

<b>Bank account</b>	<b>Name of the bank</b>	<b>Location</b>	<b>Account Number</b>
With Host Institute			
Saving	ICICI Bank, Banswara	Gandi Murti, Banswara	689901114142

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

<b>Item</b>	<b>Released by ICAR</b>		<b>Expenditure</b>		<b>Unspent balance as on 1<sup>st</sup> April 2014</b>
	<b>Kharif 2013-14</b>	<b>Rabi 2013-14</b>	<b>Kharif 2013-14</b>	<b>Rabi 2013-14</b>	
Inputs					
Extension activities					
TA/DA/POL etc.					
<b>TOTAL</b>					

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

<b>Item</b>	<b>Released by ICAR</b>		<b>Expenditure</b>		<b>Unspent balance as on 1<sup>st</sup> April 2014</b>
	<b>Kharif 2013-14</b>	<b>Rabi 2013-14</b>	<b>Kharif 2013-14</b>	<b>Rabi 2013-14</b>	
Inputs					
Extension activities					
TA/DA/POL etc.					
<b>TOTAL</b>					

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

<b>Item</b>	<b>Released by ICAR</b>	<b>Expenditure</b>	<b>Unspent balance as on 1<sup>st</sup> April 2014</b>
	<b>Kharif 2013-14</b>	<b>Kharif 2013-14</b>	
Inputs			
Extension activities			
TA/DA/POL etc.			
<b>TOTAL</b>			

## 7.5 Utilization of KVK funds during the year 2013-14

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	109	109	
2	<b>Traveling allowances</b>	3.0	3.0	
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	4.20	4.20	4.20
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	12.24	12.24	12.24
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
<b>TOTAL (A)</b>				
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>			
2	<b>Equipments including SWTL &amp; Furniture</b>			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)			
<b>TOTAL (B)</b>				
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>128.44</b>	<b>128.44</b>	



## Utilization of KVK funds during the year 2014-15

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	118.00	118.00	
2	<b>Traveling allowances</b>	1.75	0.5	
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	8.40	8.40	8.40
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	19.60	19.60	19.60
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings	19.60	19.60	19.60
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
<b>TOTAL (A)</b>		<b>147.75</b>	<b>146.50</b>	
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>			
2	<b>Equipments including SWTL &amp; Furniture</b>	2.0	-	
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)			
<b>TOTAL (B)</b>				
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>149.75</b>	<b>146.50</b>	

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

<b>Year</b>	<b>Opening balance as on 1<sup>st</sup> April</b>	<b>Income during the year</b>	<b>Expenditure during the year</b>	<b>Net balance in hand as on 1<sup>st</sup> April of each year</b>
April 2012 to March 2013	1099385.71	1399749.00	1407367.71	1091767.71
April 2013 to March 2014	1091767.71	1240535	1404636	927666.71
April 2014 to March 2015	927666.71	1765665	853815	437352

\*Rs. 8 lacks Fixed deposit of in Bank.

**8.0 Please include information which has not been reflected above (write in detail).****8.1 Constraints**

- (a) Administrative
- (b) Financial
- (c) Technical

Annexure  
**District Profile - I**

**General description of the District – Banswara**

Banswara district is a tribal dominated district falls in agro climatic zone IV B (Humid southern plain). The district is having 5.06 lac hectare geographical area out of which 2.4 lac hectare is under cultivation and 1.1 lac hectare is under forest. The average annual rainfall of the district is 1032 mm. Canals of Mahi Bajaj Sagar are the major sources of irrigation and covers 73% of the total irrigated area. Maize is the major crop of district cultivated in 1.5 lac hectare area during Kharif and 12-15 thousand hectare in rabi season. Other major Kharif crops are paddy, black gram and cotton while wheat, maize and gram are major rabi crops and green gram is the major crop of zaid. The major fruit crops are mango, anola, lemon and guava. The other horticultural crops grown are chillies, tomato, ginger, fenugreek and marigold.

**1. General census**

Population -	Male 719581	Female 701020 Total 1420601
Population density	298 / km <sup>2</sup>	
Literacy %	44.63	
Total animal & Back yard poultry	1903390 -nos	

**2. Agricultural and allied census**

Geographical area	453612 ha
Forest	91200 ha
Uncultivated land	62977 ha
Permanent pasture	120 ha
Net cultivated area	224605 ha
Cropping intensity	142%
Irrigated area	107350 ha

**3. Agro-climatic zones : IVB Southern Humid plain Zone**

**4. Agro-ecosystems**

S.N.	Name of the Agro-climate zone 9 (ACZ)	Name of the agro-ecological situation (AES)	Blocks covered
1	ACZ-IV B	AES.I Sandy Loan soil medium rainfall, Medium elevation	1. Bagidora 2. Anandpur 3. Garhi
2	ACZ-IV B	AES.II Medium black soil, high rainfall, medium elevation	1. Ghatol 2. Talwara 3. Peepalkhut
3	ACZ-IV B	AES.III Medium black soil, haigh rainfall, high elevation	1. Kushalgrah 2. Sajjangraha

## 5. Major and micro farming systems

### 6. Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.

A. Maize based	-	I	Maize- Wheat
		II	Maize- Wheat- Moong
		III	Maize – Maize
B. Soybean based		I	Soybean – Wheat- Moong
		II	Soybean- Gram
		III	Soybean - Maize
C. Cotton based		I	Cotton- Wheat- Moong
		II	Cotton- Moong

## 7. Major agriculture and allied enterprises

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

#### Include

- Names of villages, focus area, target area etc.** – Vajvana, Kohala, Tanda, Munthli, Sageta, Jhalo ka guda, Masotiya, Devliya, Sundni, Janthoda, Bhudanpura, Daiyna, Sagawadia, Vajakhera, Sungrampura, Gradia, Kataria, Kanthal, Sogpura, Chodatalai, Dalpura & Khokharwa.
- Survey methods used (survey by questionnaire, PRA, RRA, etc.)** - PRA
- Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc** – PRA techniques.
- Analysis and conclusions**
- List of location specific problems and brief description of frequency and extent/ intensity/ severity of each problem.**
  - Low productivity of wheat, maize and gram
  - High seed rate in wheat crop.
  - Zink deficiency in soil for Maize and Paddy.
  - Negligible area under vegetable and fruits.
  - Seed replacement rate is very low.
  - Low productivity of Goat, Cattle and buffalo.
  - Under feeding to cattle and buffalo.
  - Soil P<sup>H</sup> is high.
  - Mismanagement of cow dung.
  - Insect and pest in soybean.
  - Improper water management
- Matrix ranking**
  - Cultivation practices of *Kharif*, *Rabi* and Summer crops. Like Maize, Cotton, Wheat, Gram Tur, Moong etc.
  - Cultivation practices of vegetable crops like cal crops, onion, garlic, tomato, chilli, cucurbits etc.
  - Efficient use of water said and available resources
  - Management of saline soil.
  - Management at goat.
  - How to rare back yard poultry

7. Drudgery reduction practices in agriculture.
8. Fruit preservation practices.
9. Methods of mango plantation in orchard
10. Seed production techniques of various crops and vegetable
11. How to get green fodder round the year.

## 7. List of location specific thrust areas

S.No.	Thrust area
1	Enhancing productivity of maize, paddy, soybean and cotton during <i>kharif</i> , wheat and gram during <i>rabi</i> and moong during <i>zaid</i> season
2	Increasing the seed replacement rate through promoting seed production techniques of self pollinated crops
3	Diversifications of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Malika, Kesar, Dasher), Aonla (NA 7, Chakya) and Guava (L 49) and conservation of genetic resources of mango
4	Promotion dry land farming technologies with emphasis on water harvesting
5	Improving the indigenous breeds of goat by breeding and management
6	Empowerment of women through drudgery reduction in agriculture and animals husbandry, improvement in the nutrition, health, hygiene and by using improve agricultural implements
7	Imparting vocational training to tribal youth for self-employment generation on fruit plant nursery raising, fabrications of agricultural implements, livestock production, agro processing of soybean & mango
8	Exploring possibilities of aqua culture in tribal belt of Banswara

## 8. List of location specific technology needs for OFT and FLD

1. Short duration and high yielding varieties of Gram, Wheat, & Maize crops.
2. Seed production programme use breeder/founder seed self pollinated crops.
3. Feeding, breeding and management practices of cattle, Goat and buffalo.
4. Introduction of Nirbhik poultry.
5. Proper vaccination and treatment for animals
6. Recommendation of NPK on soil test based
7. Use of gypsum or organic manure for soil reclamation
8. INM, IPM, IDM, practices.
9. Methods for increasing water use efficiency
10. Compost, FYM and Vermicompost making
11. Vegetable and fruits cultivation technology

## 9. Matrix ranking of technologies

- Cultivation practices of Kharif, Rabi and summer crops. Like maize, Cotton, Wheat, Gram Tur, Moong etc.
- Cultivation practices of vegetable crops like cole crops, onion, garlic, tomato, chilli, cucurbits etc.
- Efficient use of water and available resources
- Management of saline soil.
- Management of goat.
- How to rear back yard poultry
- Drudgery reduction practices in agriculture.
- Fruit preservation practices.
- Methods of mango plantation in orchard
- Seed production techniques of various crops and vegetable
- How to get green fodder round the year.

**10. List of location specific training needs:**

1. Cultivation practices of *Kharif*, *Rabi* and summer crops. Like maize, Cotton, Wheat, Gram Tur, Moong etc.
2. Cultivation practices of vegetable crops like cole crops, onion, garlic, tomato, chilli, cucurbits etc.
3. Methods of mango plantation in orchard
4. Seed production techniques of various crops and vegetable.
5. Efficient use of water and available resources
6. Management of saline soil.
7. Management of goat.
8. Feeding, breeding and management of cow and buffalo.
9. How to rear back yard poultry
10. How to get green fodder round the year.
11. Drudgery reduction practices in agriculture.
12. Fruit preservation practices.

**Technology Inventory and Activity Chart – III**

1. Maharana Pratap University of Agriculture & Technology, Udaipur & ARS, Banswara
2. Inventory of latest technology available

Sl. No	Technology	Crop/ enterprise	Year of release or recommendation of technology	Source of technology	Reference/ citation
1.	Bio 9681	Maize	2002	MPUAT & ICAR	
2	Pratap QPM hybrid1	Maize	2013	MPUAT & ICAR	-
	Pratap Maize hybrid 3	Maize	2013	MPUAT & ICAR	
	Pratap makka 5	Maize	2013	MPUAT & ICAR	
3	Pratap Raj Soya 3	Soybean	2010	MPUAT & ICAR	
4	Pratap Raj Soya 24	Soybean	2010	MPUAT & ICAR	
5	Pusa Sugandh-5	Paddy	2004	MPUAT & ICAR	
6	Raj-4037	Wheat	2004	SKRAU & ICAR	-
7	Raj-4120	Wheat	2008	SKRAU & ICAR	
8	Raj-4079	Wheat	2010	SKRAU & ICAR	
9	Pratap Chana1	Gram	2005	MPUAT & ICAR	
10	SML668	Moong	2003	MPUAT & ICAR	PAU, Ludhiyana
11	Improved planting material (Malika, Dasher, Alphonso & Langra), balance fertilization and plant protection measures	Mango	-	As package & practices of MPUAT & Govt. of Rajasthan	-
12	Improved planting material (Kagji), balance fertilization and plant protection measures	Lime	-	As package & practices of MPUAT & Govt. of Rajasthan	-
13	Seeds of Hybrid variety (GS-7540), balance fertilization and plant protection measures	Bringal	-	As package & practices of MPUAT & Govt. of Rajasthan	-
14	Seeds of Hybrid variety (PH-2, Pradhan &	Tomato	-	As package & practices of	-

	Pramukh), balance fertilization and plant protection measures			MPUAT & Govt. of Rajasthan	
15	Seeds of Hybrid variety (Fisa), balance fertilization and plant protection measures	Cauliflower	-	As package & practices of MPUAT & Govt. of Rajasthan	
16	Seeds of Hybrid variety (Haribhari), balance fertilization and plant protection measures	Okra (Bhindi)	-	As package & practices of MPUAT & Govt. of Rajasthan	-
17	Seeds of Hybrid variety (Chandra), balance fertilization and plant protection measures	Tarkakri	-	As package & practices of MPUAT & Govt. of Rajasthan	-
18	Seeds of high yielding varieties (Pusa jawala), balance fertilization and plant protection measures	Chilli	-	As package & practices of MPUAT & Govt. of Rajasthan	-
19	Seeds of high yielding varieties (AP-1 & AP-3), balance fertilization and plant protection measures	Pea	-	As package & practices of MPUAT & Govt. of Rajasthan	
20	Seeds of high yielding varieties (agrifound dark red ) , balance fertilization and plant protection measures	Onion	-	As package & practices of MPUAT & Govt. of Rajasthan	-
21	Seeds of high yielding varieties (G-2828 G-1), balance fertilization and plant protection measures	Garlic	-	As package & practices of MPUAT & Govt. of Rajasthan	-

### Activity Chart

Crop/Animal/Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Cotton	1. Low productivity 2. Unsuitable for cotton-wheat-cropping system	1. Imbalanced nutrition 2. Pest & diseases 3. Erratic rainfall 4. Long durations	1. Balanced nutrition 2. IPM 3. short duration HYVs	1. Balanced NPK nutrition 2. Short duration HYVs 3. IPM	-
Maize	1. Low productivity 2. Imbalanced fertilization	1. Local seed 2. Lack of INM 3. Drought 4. Lack of weed management	1. Improved single cross hybrids 2. Balanced nutrition 3. Weed management	1. Short duration HYVs seed 2. Balanced nutrition 3. Proper weed management	-

Soybean	1. Low productivity 2. Imbalance nutrition 3. Heavy insect and pest damage	1. Local Seed 2. Imbalance nutrition 3. Lack of IPM 4. Improper weed management	1. Balanced nutrition 2. Weed management 3. IPM	1. Balanced nutrition 2. Short duration HYVs variety 3. IPM	-
Paddy	1. Low productivity 2. Heavy insect and pest damage 3. Imbalance nutrition	1. Imbalanced nutrition 2. lack of weed management 3. Lack of IPM	1. Balanced nutrition 2. weed management 3. IPM	1. Balanced nutrition 2. Short duration HYVs variety 3. Proper weed management	-
Wheat	1. Low productivity 2. High temperature during grain formation 3. Imbalanced nutrition	1. High seed rate 2. .Imbalanced nutrition 3. lack of weed management	1. Adequate seed rate (150 Kg/ha) 2. Balanced nutrition 3. Weed management 3. Thermo insensitive variety	1. Balanced nutrition 2. Short duration HYVs variety 3. Proper weed management	-
Gram	1. Low productivity 2. Insect pest and diseases 3. Imbalance nutrition	1.Imbalanced nutrition 2. lack of weed management 3. Lack of IPM	1. Balanced nutrition 2.Weed management 3. IPM	1. Balanced nutrition 2. Short duration HYVs variety 3. Proper weed management	-
Moong	1. Low productivity 2. Imbalanced nutrition	1. Local seed 2. .Imbalanced nutrition 3. lack of weed management	1. Balanced nutrition 2. Weed management	1. Balanced nutrition 2. Short duration HYVs variety	-
Mango	Alternate & low bearing	Desi variety, poor fertilizer management and not use proper plant protection measures	Improved planting material (Malika, Dasheri, Alphanso & Langra), balance fertilization and plant protection measures	Provide improved planting material, fertilizers & pesticides	-
Lime	Less and late fruiting on plants	Seeded Plants & poor fertilizers management	Improved planting material (Kagji), balance	Provide improved planting material, fertilizers and	-



			fertilization and plant protection measures	pesticides	
Brinjal	Low yield	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of Hybrid variety (BE-706, Chhaya), balance fertilization and plant protection measures	Provide hybrid variety seed , fertilizers & pesticides	-
Tomato	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of Hybrid variety (Dev), balance fertilization and plant protection measures	Provide hybrid variety seed , fertilizers & pesticides	-
Cauliflower	Low yield & poor quality product	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of Hybrid variety (Fisa), balance fertilization and plant protection measures	Provide hybrid variety seed , fertilizers, pesticides & Knowledge about right time of sowing	-
Okra	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of Hybrid variety (Sonal), balance fertilization and plant protection measures	Provide hybrid variety seed , fertilizers, pesticides & Knowledge about improved cultivation techniques of Okra	-
Tarkakri	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of Hybrid variety (Chandra), balance fertilization and plant protection measures	Provide hybrid variety seed , fertilizers, pesticides & Knowledge about improved cultivation techniques of Tarkakri	-
Chili	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of high yielding varieties (Ujala), balance fertilization and plant protection measures	Provide seed of high yielding variety , fertilizers, pesticides & knowledge of improved cultivation practices	-
Pea	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use	Seeds of high yielding varieties (AP-1 & AP-3),	Provide seed of high yielding variety, fertilizers,	-

		proper plant protection measures	balance fertilization and plant protection measures	pesticides & knowledge of improved cultivation practices	
Onion	Low yield and heavy infestation of insect, pest & diseases	Local variety seed, poor fertilization and not use proper plant protection measures	Seeds of high yielding varieties (Juni) , balance fertilization and plant protection measures	Provide seed of high yielding variety, fertilizers, pesticides & knowledge of improved cultivation practices	-
Garlic	Low yield	Local variety seed, poor fertilization	Seeds of high yielding varieties (G-282 G-1), balance fertilization and plant protection measures	Provide seed of high yielding variety, fertilizers, pesticides & knowledge of improved cultivation practices	-

#### 4. Details of each of the technology under Assessment, Refinement and demonstration

- a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT
- b. Details of technologies that may include formulation, quantity, time, time, methods of application of nutrients, pesticides, fungicides etc. for technologies selected under FLD and OFTs
- c. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT
- d. a. Introduction of improved planting material of fruit plants & high yielding and hybrid varieties seeds of vegetables to the farmers.
- e. Provide fertilizers for use of balance fertilization in the fruits & vegetable crops
- f. Provide appropriate pesticides to produce high yield free from insect, pest and diseases
- g. Provide technical knowledge about improved cultivation techniques to each selected farmers for respective crops taken under NHM FLDs on fruits, vegetables and seed spices.