Annual Progress Report (April2012-March2013)

Krishi Vigyan Kendra Manpur, Gaya

Directorate of Extension Education

Bihar Agricultural University, Sabour Bhagalpur, Bihar

REVISED PROFORMA FOR ANNUAL REPORT (April 2012 to March 2013)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	E mail
Krishi Vigyan Kendra Manpur Gaya. - 823003	kvkmanpurgaya@gmail.com

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

Address	**Telephone**		**E mail**
	Office	**FAX**	
Vice-Chancellor, Bihar Agricultural University, Bhagalpur, Sabour	0641-2452606	0641-2452606	vcbausabour@gmail.com

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

Name	**Telephone / Contact**		
	Residence	**Mobile**	**Email**
Dr. S.Chaurasia		8987193648	kvkmanpurgaya@gmail.com

Sl. No.	**Sanctioned post**	**Name of the incumbent**	**Designation**	**Discipline**	**Pay Scale with present basic**	**Date of joining/ if vacant since when**	**Permanent /Temporary**	**Category (SC/ST/ OBC/ Others)**
1	Programme Coordinator	Dr. **S.Chaurasia**	PC	Plant Pathology.	(15600-39100) 30320/-	02.05.2013	Permanent	OBC
2	Subject Matter Specialist	Dr. Nidhi Sinha	SMS	Home.Sc	(15600-39100) 26600/-	09.08.2007	Permanent	Others
3	Subject Matter Specialist	Dr.Govind Kumar	SMS	Agronomy.	(15600-39100) 23610/-	11.06.2009	Permanent	Others
4	Subject Matter Specialist	Dr. Bibha Kumari	SMS	Vety.Sc	(15600-39100) 23610/-	15.06.2009	Permanent	OBC
5	Subject Matter Specialist	Dr.Ranjeet Kumar	SMS	Entomology	(15600-39100) 21000/-	13.04.2012	Permanent	OBC
6	Subject Matter Specialist						Vacant	
7	Subject Matter Specialist						Vacant	
8	Programme Assistant	Smt Neha	PA	B.Sc.(Ag)	9300-34800 13500/-	02.11.12	Permanent	OBC
9	Computer Programmer			.			Vacant	
10	Farm Manager	Sri Mukesh Kumar	FM	M.Sc(Ag) (Ext.Edu.)	9300-34800 13500/-		Permanent	
11	Accountant / Superintendent						Vacant	
12	Stenographer						Vacant	
13	Driver	Akhilesh Kumar	Jeep driver	Matric	5400/- (consolidated)			Gen.

14	Driver	Ravindra Kumar	Tractor Driver		5746/- (consolidated)			
15	Supporting staff	Shri Kokila Nand Pandey	Chowkider		4200/- (consolidated)			Gen
16	Supporting staff							

1.4. Year of sanction of KVK: (Reference of Sanction Order) – F.No. 18-13/94-AE-I dt. 24.03.06

1.5. Staff Position (as on 1st April, 2013)

1.6. Total land with KVK (in ha) :10ha

S. No.	Item	Area (ha)
1	Under Buildings	1.2
2.	Under Demonstration Units	-
3.	Under Crops	4.0
4.	Orchard/Agro-forestry	4.0
5.	Others with details	0.8
	Total	10ha

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1.7Infrastructure Development:

A) Buildings

S. No.	Name of building	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (Sq. m)	Source of funding
	Administrative Building					handed Over		ICAR/RAU
2.	Farmers Hostel							
3.	Staff Quarters (6)							
4.	Demonstration Units (2)							
5	Fencing	3900ft Approx				Only two side (2200 ft) Approx		
6	Rain Water harvesting structure							
7	Threshing floor					Handed Over		
8	Farm godown					Handed Over		
9.								
10.	Mali shade					Handed Over		NHM
11.	Farm Godown					Handed Over		RKVY
12.	Generator Room					Handed Over		RKVY
13.	Sale Counter							

* If not in use then since when and reason for non-use

B) **Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero LX 2WD7STR Non AC BS11	2006	458070.00	148856	Working
Tractor DIJ MF1035 /Mahashakti	2006	386544.00		Working

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status
1. Honey box & Accessories 2. Steel Dram 3. Godrej Book selves & Almirah 4. Computer with accessories 5. Inverter 6. Exide II550 Battery 7. Index card reader 8. Punch sealer Machine 9 P.A System 10. LCD Projector 11. Generator 12. Book self 13.Inverter 14.Exide Battery (2) 15.Computer with acessories 16.Godrej almirah 1,Table 4, Chair 10 ,Revolving 1,Rack 1	2011 2007 2007 2007 2010 2011 2010 2011 2011 2011 2011 2011 2012 2012 2012 2013	 37500 49145 98092 	Satisfactory

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
1. Disc Harrow 2. MB plough 3. Hydraulics trailer 4. Tiller/cultivator 5. Cage wheel 6. Leveler 7. Zero Till Machine 8. . Pump Set 9. Cono weeder	2006 2006 2006 2006 2006 2006 2011 2008 2009		Working Working Working Working Working Working Working Working Working	
10Tube well 5H.P Kiloshker	2008			
11. weight Machine	2011			
12.Zero tillage 13. Rota vator 14. Reaper 15. Seed processing unit	2011 2011 2011 2011		Working	
16.Lazer land laveler	2012	376000		

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

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	4th SAC Meeting held on 26.08.12	27	• Copy of proceeding should be circulated among the members of the committee. • Three months of calendar of KVK must be prepared for all subjects. • Crop cafeteria developed in the KVK campus. • Time to time meeting for different stakeholders and innovatives farmers should be organised at the centre. • PRA of selected villages should be done for gap analysis. • Soil of different plots of KVK cultivable land should be send to ARI Patna for soil testing. • propagation of seedling and sapling of plants from different mother plants should be done.Gap filling of mango orchard should be completed. • Communication help line service should get started for farmers benefit. • Price and amount of available seeds maybe displayed at board. For complete selling of seed must be insured with the help of line department. • Good quality seeds should be made available to the farmers through centre. • Action plan should be prepared in consultation with the Regional Director ARI Patna.	

**** Salient recommendation of SAC in bullet form***
Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2011-12) : Source of information must be indicated

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

S. No	Farming system/enterprise
1.	Paddy - Wheat – Moong
2.	Paddy – Lentil – Fallow
3.	Paddy – Rai – Moong
4.	Paddy – Sugarcane
5.	Paddy – Potato – Vegetable
6.	Maize – Potato – Vegetable
7.	Dairy, Poultry, Bee keeping and Fishery are important enterprises adopted by selective farmers.

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

S. No	Agro-climatic Zone	Characteristics
1.	Zone – IIIB	Climate is subtropical having average annual rainfall 944 mm. June is the hottest month when temperature goes up to 49^0C while December is the coldest month when temperature goes down to 2^0C. Average Relative Humidity is 66%

S. No	Agro ecological situation	Characteristics
1.	Irrigated Plain (Sandy-loam to loam soil)	The geographical area of the district is 493774 ha. Out of which Cultivable land is 198123 ha, comprising upland (49765 ha) medium land (110874ha) and low land (37484 ha). Major crop is paddy followed by wheat & vegetables. Among oil seeds & pulses rai, linseed, lentil, gram and red gram are important crops.
2	Rainfed Plain (Sandy Loam, Light to heavy texture Soil)	
3.	Hilly Upland (Rainfed, Undulating topography)	

2.3 Soil type/s

S. No	Soil type	Characteristics
1.	Sandy Loam	Admixture of sand & Clay, predominantly sandy, found alongside the river beds.
2.	Loamy soil	Found near the hills and formed by rains washings from higher area.
3.	Sandy soil	Locally known as balui, found near the bank of the river.
4.	Kewal Soil (Black)	It is a mixture of clay and loam and is very productive acidic in nature.
5.	Foot hill Balthar Soil (Red)	It is in between the plain and dissected plateau. It is acidic in nature.

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

S. No	Crop	Area (ha)	Production (Kg)	Productivity (Kg /ha)
Kharif				
1.	Paddy	190955	640153	3352
2.	Maize	6763	6270	927
3.	Marua	308	233	756
4.	Arhar	4386	3874	883
5.	Urad	1438	803	558
6.	Moong	3223	1713	531
7.	Kulthi	78	44	564
8.	Groundnut	892	629	705
9.	Til	956	529	55.3
10.	Castor	89	43	483

11.	Sunflower	86	50	581
Rabi				
1.	Wheat	82729	142956	1728
2.	Maize	2418	4531	1874
3.	Barley	2328	1136	488
4.	Gram	34823	17237	495
5.	Lentil	20686	6247	302
6.	Pea	3045	1248	410
7.	Other Pulses			
8.	Linseed	7071	3924	555
9.	Rai/Sarson	12942	9344	722
10.	Sunflower	161	94	582

2.5. Weather data

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	**Minimum**	
April 12	0.0			
May, 12	1.61			
June, 12	0.00	44-49		
July, 12	240.4			
Aug.12	648.6			
Sept, 12	49.2			
Oct, 12	10.5			
Nov. 12	0.0			
Dec., 12	0.0		02-04	
Jan., 13	0.0			
Feb., 13	0.0			
March, 13	0.0			

2.6. Production and productivity of livestock, poultry, fisheries etc. in the district

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	10027		
Indigenous	293436		
Buffalo	254729		
Sheep	18145		
Crossbred			
Indigenous			
Goats	445546		
Pigs	122914		
Crossbred			
Indigenous			
Rabbits			
Poultry	892833		
Hen			
Desi			
Improved			
Duck			
Turkey and others			
Category	**Area**	**Production**	**Productivity**
Fish			
Marine			
Inland			
Prawn			
Scampi			

Shrimp			

2.6 Details of operational area / villages (2012-13)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.		Manpur	Lakhanpur	Paddy, Wheat, Potato, Rai, Vegetables, Maize, Mushroom,	Use of non-recommended Pesticide, Use of traditional varieties	Seed Production / Vermi compost IPM INM Use of bio fertilizer,Anastrus in milch animal,
2.		Chandauti	Rasalpur	Paddy, Wheat, Vegetable,	- Use of non-recommended Pesticide, Use of traditional varieties	High incidence of insect pest,
3.		Bodh Gaya	Sekhwara	Vegetable, Paddy, Wheat, Dairy, Vermi compost	- Use of non-recommended Pesticide, Use of traditional varieties	-do-
4.		Wazirganj	Punawa	Paddy, Mushroom apiary, flower &Vegetable	Lack of irrigation facility Use of non-recommended Pesticide, Use of traditional varieties	-do-
5.		Khizersarai	santinagar	Vermicompost, Haldi, Poultry, Goatry	- Use of non-recommended Pesticide, Use of traditional varieties	-do-

2.7 Priority thrust areas

S. No	Thrust area
1.	Introduction and popularization of improved varieties of cereals, pulses and oil seed crops.
2.	Seed production of cereals, oil seed & horticultural crops.
3.	To popularize improved cultivation techniques of different horticultural crops.
4.	Integrated nutrient management (INM) and pest management (IPM)
5.	Income and employment generation through Goatray, poultry, vermi-compost, dairy, beekeeping, mushroom cultivation & preservation of fruits & vegetable.
6.	Improvement of milch cattle through hybridization and proper care.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievement of mandatory activities by KVK during 2012-13

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
10	09	93	127	10	08	145	

Training					Extension activities				
3					4				
Number of Courses			Number of Participants		Number of activities			Number of participants	
Target		Achievement	Target	Achievement	Target		Achievement	Target	Achievement
PF	59	57	1350	1505	Field day	08	05	200	150
RY	8	8	240	179	KG	10	0	230	
EF	4	4	155	160	Mela	03	03	Mass	Mass
Spons. Training		44	-	8006	Scientist visit	112	118	400	493
					Farmers visit	1000	496	1000	496
					FSC	03			
					Kisan Club meeting	02	03		
					T.V	08	03		Mass
					Paper coverage	24	56		Mass
					Technical bulletin	05	06		Mass

Seed production (q)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
100q	103.94q	nil	Nil

3.1 Achievements on technologies assessed and refined

3.1 A Title of on-farm trials: Assessment of yield advantage in paddy through SRI over traditional Method.

- **Problem diagnosed:** Transplanting of 30- 35 days old seedlings, 3- 4 seedlings/ hill without maintaining proper spacing, Low productivity etc.
- **Details of technologies selected for assessment/refinement**.

  Tech.Option- 1 (Framers Practice)

  Tech.Option - 2. (Recommended Practice) – 21 days old seedling at 20 x 15 cm spacing with RDF

  Tech. Option -3. SRI (8- 12 days old seedlings at 25 x 25 cm spacing + RDF + V. C)
- **Production system and thematic area**: Rice - wheat cropping system, yield enhancement in field crops.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Variety	No. of tillers/ sq. m	Grains / panicle	1000 grain wt. (gm.)	Yield (q /ha)	Gross Cost (Rs./ ha)	Gross Return (Rs./ ha)	Net Return (Rs./ ha)	BCR
Tech.Option-1.	10	Sahbhagi	214.2	228.1	22.98	40.35	26835	52620	25785	1.96
Tech.Option-2.	10	Sahbhagi	236.6	216.3	23.21	47.46	27558	59142	31584	2.14
Tech.Option-3.	10	Sahbhagi	258.3	218.2	23.58	57.62	30592	73525	42933	2.40

- **Final recommendation for micro level situation:**

  Result of the trail indicated that SRI technique is feasible and viable than other practices of rice cultivation, for enhancing the yield in rice crop under limited resource conditions especially for small and marginal farmers.
- **Constraints identified and feedback for research :** Although the technology is very popular but the adoption is less due to Problem of skilled labour for transplanting as well as for operation of Cono- weeder.

  Process of farmers participation and their reaction: Adoption of this technique will

certainly increase the yield of rice and farmers are agree to adopt this technology at large scale in future.

3.1.B Title of on-farm trials: Assessment of different herbicides (new molecules) for controlling weeds in wheat.

- **Problem diagnosed:** High infestation of weeds causes yield reduction (av. up to 30 %)
- **Details of technologies selected for assessment/refinement.**

  Tech.Option- 1 (Framers Practice)

  Tech.Option - 2. Pendimethalin 30 % EC @ 3.3 lit/ ha as pre- emergence.

  Tech. Option -3. Clodinafop Proparyl 15 % WP @ 400 gm/ ha as post- emergence at 35- 40 DAS.

  Tech. Option -4. Sulfosulfuron 75 % WG + Metsulfuron methyl 5 % WG @ 40 gm/ ha as post- emergence at 35- 40 DAS.
- **Production system and thematic area**: Rice - wheat cropping system, yield enhancement in field crops.
- **Performance of the technology with performance indicators:**

  Result awaited

3.1.C Title of on-farm trials : Assessment of Fipronil 0.3% & Fipronil 5 % SC (Regent) in management of yellow stem borer (Scirpophaga incertulus L.)

- **Problem diagnosed:** infestation of YSB in Gaya are moderate to severe and causing 15-20 % yield loss every year. Non recommended insecticides used by the farmers.
- **Details of technologies selected for assessment/refinement**.
  Tech.option.-1 Farmers (Framers Practice) Chlorpyriphosh 20 EC @ 2000 ml/ha
  Tech.Option - 2. Fipronil 0.3 %GR@ 25 Kg/ha at 25 -30DAT and Fipronil 5 % SC@ 1000 ml/ha at 60-65 DAT
- **Source of technology**: G.B.P.U.A & T, Pantnagar, Uttarakhand
- **Production system and thematic area** : Rice wheat cropping system, IPM.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Variety	% Dead Heart at 30 DAT	% Dead Heart at 60 DAT	% Dead Heart at 90 DAT	Yield (Quintal/ ha)	Gross Cost (Rs.)	Gross Return	Net Return	BCR
Tech.option-1.	8	R. Kashturi	5.45	9.89	21.97	33.18	27500	44793	17293	1.62
Tech.Option-2.	8	R. Kashturi	1.06	0.00	0.56	41.48	29550	55998	26448	1.89

- **Final recommendation for micro level situation:**
- Result of the trail indicated that use of. Fipronil 0.3 %@ 25 Kg/ha at 25 -30DAT and Fipronil 5 % SC@ 1000 ml/ha at 60-65 DAT is economical and responsible for increase in production and keeping the insect population below ETL.
- **Constraints identified and feedback for research :**
  The cost of Fipronil 0.3%GR and Fipronil 5 % SC is more than Chlorpyriphosh 20 % EC but performance is satisfactory among farming communities.
- **Process of farmers participation and their reaction**
  Information of newly insecticides in farming communities may enhance the production..
  Farmers are agree to adopt this technology at large scale in future.

3.1.D Title of on-farm trials : Efficacy of Emamectin Benzoate 5 SG (Missile) against Brinjal Fruit and shoot borer (Leucinodes arbonalis L.)

- **Problem diagnosed:** Infestation of FSB in Gaya are moderate to severe and causing 20-25 % yield loss every year. Non recommended insecticides used by the farmers.
- **Details of technologies selected for assessment/refinement**.
  Tech.option. Farmers (Framers Practice) Chlorpyriphosh 20 EC @ 2000 ml/ha
  Tech.Option - 2. Emamectin Benzoate 5 SG @ 250 g/ha after infestation of FSB
- **Source of technology**: G.B.P.U.A & T, Pantnagar, Uttarakhand
- **Production system and thematic area**: Rice wheat cropping system, followed by Vegetable Production, IPM.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Variety	% Affected plant	% Affected fruits	Yield Q/ha	Gross Cost (Rs.)	Gross Return	Net Return	BCR
Tech.option-1.	10	PPR	16.43	18.26	206	48000	206000	158000	4.29
Tech.Option-2.	10	PPR	2.16	0.00	250	50500	250000	199500	4.95

- **Final recommendation for micro level situation:**
- Result of the trail indicated that use of. Emamectin Benzoate 5 SG @ 250 g/ha after first infestation of FSB is economical and responsible for increase in production and keeping the insect population below ETL.
- **Constraints identified and feedback for research :**
  The cost of Emamectin Benzoate 5 SG is more than Chlorpyriphosh 20 % EC but performance is satisfactory among farming communities.
- **Process of farmers participation and their reaction**
  Information of newly insecticides in farming communities may enhance the production..
  Farmers are agree to adopt this technology at large scale in future.

3.1.E Title of on-farm trials : Efficacy of Indoxacarb 15.8 EC (Awant) against Borer (*Hellula . undulis, Spodoptera litura* and *Plutella xyllostella*) in Cauliflower

- **Problem diagnosed:** Infestation of Borer in Cauliflower are moderate to severe problem in Gaya district and causing 20-25 % yield loss every year. Non recommended insecticides used by the farmers.
- **Details of technologies selected for assessment/refinement**.
- Tech.option.1. Farmers (Framers Practice) Chlorpyriphos 20 EC @ 2000 ml/ha
- Tech.Option - 2. Indoxacarb 15.8 EC @ 500 ml/ha after first infestation of Borer
- **Source of technology**: G.B.P.U.A & T, Pantnagar, Uttarakhand
- **Production system and thematic area**: Rice wheat cropping system, followed by Vegetable Production, IPM.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Variety	% Affected leaves	% Affected Curd	Yield Q/ha	Gross Cost (Rs.)	Gross Return	Net Return	BCR
Tech.option-1.	10	Snowboll 16	16.47	24.76	151	49500	151000	101500	3.05
Tech.Option-2.	10	Snowboll 16	3.81	1.02	200	51650	200000	148350	3.87

- **Final recommendation for micro level situation:**
- Result of the trail indicated that use of. Indoxacarb 15.8 EC @ 500 ml/ha after first infestation of Borer in cauliflower is economical and responsible for increase in production and keeping the insect population below ETL.
- **Constraints identified and feedback for research :**
  The cost of Indoxacarb 15.8 EC is more than Chlorpyriphos 20 % EC but performance is satisfactory among farming communities.
- **Process of farmers participation and their reaction**
  Information of newly insecticides in farming communities may enhance the production.. Farmers are agree to adopt this technology at large scale in future.

3.1.F Title of on-farm trials : Efficacy Cymoxanil 8 % + Mancozeb 64% (Curzate M8) against late blight of Potato (Phytophthora infestance).

- **Problem diagnosed:** Infection of *Phytophthora infestance* in Potato are moderate problem in Gaya district and causing 20-30 % yield loss every year. Non recommended insecticides used by the farmers.
- **Details of technologies selected for assessment/refinement**.
- Tech.option. Farmers (Framers Practice) Mancozeb @ 2500g/ha
- Tech.Option - 2. Cymoxanil 8 % + Mancozeb 64% (Curzate M8) @ 1500g/ha after first infection of *Phytophthora infestance* .
- **Source of technology**: G.B.P.U.A & T, Pantnagar, Uttarakhand
- **Production system and thematic area**: Rice wheat cropping system, followed by Vegetable Production, IPM.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Fungicide	% incidence	Yield Q/ha	Gross Cost (Rs.)	Gross Return	Net Return	BCR
Tech.option-1.	11	Mancozeb	29.79	198	72000	158400	86400	2.20
Tech.Option-2.	11	Curzate M8	0.00	225	74550	180000	105450	2.41

- **Final recommendation for micro level situation:**
- Result of the trail indicated that use of. Cymoxanil 8 % + Mancozeb 64% (Curzate M8) @ 1500g /ha after first infection of Phytophthora infestance in Potao is economical and responsible for increase in production and keeping the insect population below ETL.
- **Constraints identified and feedback for research :**
  The cost of Cymoxanil 8 % + Mancozeb 64% (Curzate M8) @ 1500g is more than Mancozeb MZ but performance is satisfactory among farming communities.
- **Process of farmers participation and their reaction**

Information of newly insecticides in farming communities may enhance the production.. Farmers are agree to adopt this technology at large scale in future.

3.1 G. Title of on-farm trials : Assessment of different base materials on oyster Mushroom production

- **Problem diagnosed** : High cost of Wheat straw
- **Details of technologies selected for assessment**.

  Tech.option 1. Farmers (Framers Practice) Use of wheat straw as base material

  Tech.Option - 2. Recommended Practice Use of paddy straw as base material

  Tech.Option – 3. Use of wheat straw + paddy straw (50% each) as base material
- **Source of technology**: Directorate of Mushroom research, Solan, H.P.
- **Production system and thematic area** : Mushroom production.
- **Performance of the technology with performance indicators**:

Technology option	No. of trials	Yield (kg/10 kg of base)	Economics of production (Rs.)			BCR
			Gross cost	Gross return	Net return	
Tech.option 1. Farmers (Framers Practice) Use of wheat straw as base material	15	6.23	290	373	83	1.28
Tech.Option -2.Recommended Practice Use of paddy straw as base material	15	7.43	260	445	185	1.71
Tech.Option – 3. Use of wheat straw + paddy straw (50% each) as base material	15	8.05	275	483	208	1.75

- **Final recommendation for micro level situation:**

  As per the result of assessment in terms of quantity of production and BCR farmers are recommended to use Tech.Option – 3. Use of wheat straw + paddy straw (50% each) as base material in place of wheat straw for oyster mushroom production

- **Constraints identified and feedback for research**

  Temperature should be proper for mushroom production

- **Process of farmers participation and their reaction**

  Farmers are ready to adopt technology for the mushroom production.

3.1.H. Title of on-farm trials- Assessment of GnRH and Min-mix + Broad Spectrum Dewormer in management of anoestrus in Bovine heifer .

- **Problem diagnose** – Heifer don't come in heat over exceeding the puberty period.
- **Details of technologies selected for assessment/refinement**-
  T_1 - Farmer practices (Germinated Wheat)
  T2-GnRH injection @5.0 ml I/M
  T3-Mineral Mix (50gm/animal) for 20 days +Albendazole first day
- **Source of technology**- IVRI Breily
- **Production system and thematic area-** infertility management
- **Performance of the Technology with performance indicators-**

Technology Adopted	No. of animals under trail	No. of animal come in heat after completion of treatment (observed up to 60 days)	No. of animal conceived	% of conception
T_1 - Farmer practices (Germinated Wheat)	10	02	0	0
T_2- GnRH injection @5.0 ml I/M	10	08	6	60%
T_3- Mineral Mix (50gm/animal) for 20 days +Albendazole first day	10	05	3	30%

- **Final recommendation for micro level situation**:-

  Anoestrus in Bovine heifer pasimate the farmers of the District toward their economic return.For this an OFT conducted with use of GnRH ,mineral mixture & BS dewormer .In technology I of farmer practice (germinated wheat) to 10 animals out of 2 come in heat but none conceived .In T.O.II animals treated with GnRH 5 ml I/M out of which 8 animals come in heat and 5 conceived. In T.O. III animals given mineral mixture 50 gram for 20 days with dewormer on 1st day out of which 5 animals come in heat and 3 conceived .Finally recommended that GnRH is suitable in term of coming heat & conception in healthy Bovine heifer.

- **Process of farmers participation and their reaction** :-Farmers are ready to adopt the treatment as increase in heat and conception rate.

3.1.I.Title of on-farm trials- Assessment of Fenbendazole + min-mix and Fenbendazole + min- mix for 60 days and Prajana SH in Post Partural anoestrous management in dairy animal

- **Problem diagnose** – Post calving anoestrous in dairy animal due to micronutrient deficiency and endoparasitic infection.
- **Details of technologies selected for assessment/refinement**-
  - T_1 - Farmer practices (Germinated Wheat)
  - T_2- Fenbendazole 10 mg/kg b.wt.+ min-mix(50 gram) for 60 days
  - T_3- Fenbendazole 10 mg/kg b.wt.+ min-mix(50 gram) for 60 days and Prjana SH 3 bolus for 4 last days
- **Source of technology**- IVRI Breily
- **Production system and thematic area-** infertility management
- **Performance of the Technology with performance indicators-**

Technology Adopted	**No. of animals under trail**	**No. of animal come in heat after completion of treatment (observed up to 60 days)**	**No. of animal conceived**	**% of conception**
T_1 - Farmer practices (Germinated Wheat)	09	03	0	0
T_2- Fenbendazole 10 mg/kg b.wt.+ min-mix(50 gram) for 60 days	09	05	3	33%
T_3- Fenbendazole 10 mg/kg b.wt.+ min-mix(50 gram) for 60 days and Prjana SH 3 bolus for 4 last days	09	07	5	55%

- **Final recommendation for micro level situation**

Anoestrus is a common problem in Gaya district. The farmers faced unusual economic loss due to loss in production .In first technology animal tried with germinated Wheat(farmers practice), out of 09, thee animals come in heat and none of which conceived. In technology II- animal given Dewormer (Fenbendazole) + Min-Mix, five animals come in heat and three conceived. Tech. –III along with Fenbendazole, Min-Mix the Prajana SH given for 4 days in last 60 days resulted all the

seven animal come in heat, out of which 5 animal conceived .Tech.-III resulted in higher rate of coming in heat and conception over all practice and most suitable for coming in heat and conception.

- **Process of farmers participation and their reaction :-**Farmers are ready to adopt the technology to manage the post pastural anoestus in dairy animal.

3.2 Achievements of Frontline Demonstrations

A.. Details of FLDs implemented during 2012-13 (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated @	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	YE	Sahbhagi	Kharif	5.6	5.6	3	11	14	
			R. Kastury		4.4	4.4	2	09	11	
2.	Lentil	YE	Arun	Rabi	5	5	2	11	13	
3.	Rai	YE	R. Suflam	Rabi	5	5	5	08	13	
4.	Wheat	YE	DBW-14	Rabi	10	10	6	19	25	
	Moong	YE	PDM-139	Summer	5	3	3	9	12	

@ please mention component technology like seed/ fertilizer/ bio-fertilizer/ plant protection or full package

PERFORMANCE OF FLD

Oilseeds:

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rai	YE	R. Suflam	13	5.0	10.84	9.55	13.50	14180	40824	26644	2.87	13910	35880	21970	2.58
Total															

Frontline demonstrations on oilseed crops

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Lentil	YE	Arun	13	5.0	10.45	8.90	17.41	14970	43210	28240	2.88	14460	36320	21860	2.51
Total															

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Maize, cotton and lentil as special programme

Frontline demonstration on maize, cotton and lentil

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total															

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other crops

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																	
Paddy	Yield enhancement	Sahbhagi	14	5.60	47.64	41.25	15.49	-	-	26350	62050	35700	2.35	25760	53862	28102	2.09
		R. Kasturi	11	4.40	41.86	36.80	13.75	-	-	25230	59011	33781	2.34	24010	48300	24290	2.01
wheat	Yield Enhancement	DBW- 14	25	10.0	Result awaited												
Millets																	
Vegetable crops																	
Flower crops																	
Ornamental crops																	

Fruit crops																		
Spices and condiments																		
Commercial crops																		
Medicinal and aromatic plants																		
Fodder crops																		
Plantation crops																		
Fibre crops																		
Others (Peagonpea)	**IPM**	**Indoxacarb 15.8 EC**	**20**	**4.0**	**11.15**	**9.32**	**19.63**	**-**	**-**	**18250**	**42370**	**24120**	**2.32**	**16000**	**35416**	**19416**	**2.21**
		Total																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Other Deworming																	
Total																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	

Mussels																	
Ornamental fishes																	
Others (pl.specify)																	
	Total																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Mushroom production	10	10	6.5	6.0	30			290	390	100	1.3	290	360	70	1.24
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	**No. of KVKs**	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women						
Children						
Neonatal						
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									

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Demonstration details on crop hybrids

Crop	**Name of the Hybrid**	**No. of farmers**	**Area (ha)**	**Yield (kg/ha) / major parameter**			**Economics (Rs./ha)**			
				Demo	**Local check**	**% change**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**

Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										

Sorghum (Fodder)										
Others (pl.specify)										
Total										

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

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

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
		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	Lentil var. Arun recoded as cold tolerant and wilt resistant varitey
2.	Moong (PDM-139) recorded to be free from YMV and high yield appreciated by the farmers and assure for area expansion in next crop season.
3.	Rai var. R. Suflam appreciated by the farmers for its better performance in late sown condition

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	5	7/8-3-13 20/21-3-13 25-3-13	150	
2	Farmers Training	4		76	
3	Media coverage	2	20-3-13	35	
4	Training for extension functionaries				

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
I Crop Production													
Weed Management	1	19	-	19	1	-	1	-	-	-	20	-	20
Resource Conservation Technologies	1	16	1	17	5	9	14	-	-	-	21	10	31
Cropping Systems													
Crop Diversification	1	29	-	29	-	-	-	-	-	-	29	-	29
Integrated Farming													
Water management	1	6	14	20	1	5	6	-	-	-	7	19	26
Seed production													
Nursery management	1	3	-	3	2	21	23	-	-	-	5	21	26
Integrated Crop Management	3	68	6	74	12	-	12	-	-	-	80	6	86
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	1	25	-	25	3	-	3	-	-	-	28	-	28
II Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													

Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV Livestock Production and Management													
Dairy Management	1	15	2	17	2	-	2	-	-	-	17	4	21
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													

Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	3	15	41	56	11	13	24	-	-	-	26	54	80
Income generation activities for empowerment of rural Women	3	34	30	64	13	6	19	-	-	-	47	36	83
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others, if any													
VI Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII Plant Protection													
Integrated Pest Management	7	154	-	154	20	-	20	-	-	-	174	-	174
Integrated Disease Management	2	44	-	44	6	-	6	-	-	-	50	-	50
Bio-control of pests and diseases	1	14	-	14	2	-	2	-	-	-	16	-	16
Production of bio control agents and bio pesticides													
Others, if any													
VIII Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													

Production technologies													
Nursery management													
Integrated Farming Systems													
XII Others (Pl. Specify)													
TOTAL	**26**	**442**	**94**	**536**	**78**	**54**	**132**	**-**	**-**	**-**	**520**	**150**	**670**
(B) RURAL YOUTH													
Mushroom Production	2	36	11	47	5	-	5	-	-	-	47	5	52
Bee-keeping	1	12	-	12	2	-	2	-	-	-	14	-	14
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture	1	10	7	17	3	-	3	-	-	-	13	7	20
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	1	15	3	18	2	-	2	-	-	-	17	3	20
Sheep and goat rearing	1	17	3	20	5	-	5	-	-	-	22	3	25
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology	1	8	14	22	-	1	1	-	-	-	8	15	23
Tailoring and Stitching													
Rural Crafts	1	-	22	22	-	3	3	-	-	-	-	25	25
Others, if any													
TOTAL	**8**	**98**	**60**	**158**	**17**	**4**	**21**	**-**	**-**	**-**	**115**	**64**	**179**
(C) Extension Personnel													
Productivity enhancement in field crops													
Integrated Pest Management	1	40	-	40	3	-	3	-	-	-	43	-	43
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	8	13	21	2	2	4	-	-	-	10	15	25
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Any other (Pl. Specify)													
TOTAL	**2**	**48**	**13**	**61**	**5**	**2**	**7**	**-**	**-**	**-**	**53**	**15**	**68**

B) OFF Campus

Thematic Area		No. of Participants	Grand Total

	No. of Courses	Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
I Crop Production													
Weed Management													
Resource Conservation Technologies	1	-	42	42	-	16	16	-	-	-	-	58	58
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management	1	15	-	15	5	-	5	-	-	-	20	-	20
Seed production													
Nursery management													
Integrated Crop Management	2	44	-	44	10	-	10	-	-	-	54	-	54
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													

Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV Livestock Production and Management													
Dairy Management	3	22	24	46	4	6	10	-	-	-	26	30	56
Poultry Management	1	14	12	26	4	6	10	-	-	-	28	18	36
Piggery Management													
Rabbit Management													
Disease Management	3	19	39	58	6	5	11	-	-	-	25	44	69
Feed management	3	39	22	61	6	5	11	-	-	-	45	27	72
Production of quality animal products													
Others, if any Goat farming	1	7	-	7	2	5	7	-	-	-	9	5	14
V Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet	1	1	21	22	-	3	3	-	-	-	1	24	25
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	3	10	50	60	-	5	5	-	-	-	10	55	65
Gender mainstreaming through SHGs	1	4	16	20	5	3	8	-	-	-	9	19	28
Storage loss minimization techniques													
Value addition	2	7	11	18	6	11	17	-	-	-	13	22	35
Income generation activities for empowerment of rural Women	1	-	16	16	-	10	10	-	-	-	-	26	26
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others, if any													
VI Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII Plant Protection													
Integrated Pest Management	5	89	-	89	13	-	13	-	-	-	102	-	102
Integrated Disease Management	3	65	4	69	8	-	8	-	-	-	73	4	77
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX Production of Inputs at site													

Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII Others (Pl. Specify)													
TOTAL	**31**	**336**	**257**	**693**	**69**	**75**	**144**				**415**	**332**	**835**
(B) RURAL YOUTH													
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL													
(C) Extension Personnel													
Productivity enhancement in field crops	2	77	7	84	8	-	8	-	-	-	85	7	92

Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Any other (Pl. Specify)													
TOTAL	**2**	**77**	**7**	**84**	**8**	**-**	**8**	**-**	**-**	**-**	**85**	**7**	**92**

C) Consolidated table (ON and OFF Campus)

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
(A) Farmers & Farm Women													
I Crop Production													
Weed Management	**1**	19	-	19	1	-	1	-	-	-	20	-	20
Resource Conservation Technologies	**2**	16	43	59	5	25	30	-	-	-	21	68	89
Cropping Systems													
Crop Diversification	**1**	29	-	29	-	-	-	-	-	-	29	-	29
Integrated Farming													
Water management	**2**	21	14	35	6	5	11	-	-		27	19	46
Seed production													
Nursery management	**1**	3	-	3	2	21	23	-	-	-	5	21	26
Integrated Crop Management	**5**	112	6	118	22	-	22	-	-	-	134	6	140
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	**1**	25	-	25	3	-	3	-	-	-	28	-	28
II Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													

Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV Livestock Production and Management													
Dairy Management	4	37	26	63	6	6	12	-	-	-	43	34	77
Poultry Management	1	14	12	26	4	6	10	-	-	-	28	18	36
Piggery Management													
Rabbit Management													
Disease Management	3	19	39	58	6	5	11	-	-	-	25	44	69
Feed management	3	39	22	61	6	5	11	-	-	-	45	27	72
Production of quality animal products													
Others, if any Goat farming	1	7	-	7	2	5	7	-	-	-	9	5	14
V Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet	1	1	21	22	-	3	3	-	-	-	1	24	25
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	3	10	50	60	-	5	5	-	-	-	10	55	65
65Gender mainstreaming through SHGs	1	4	16	20	5	3	8	-	-	-	9	19	28
Storage loss minimization techniques													
Value addition	5	21	52	73	17	24	41	-	-	-	38	76	114
Income generation activities for empowerment of rural Women	4	34	46	80	13	16	29	-	-	-	47	62	109
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others, if any													
VI Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													

Others, if any													
VII Plant Protection													
Integrated Pest Management	12	243	-	243	33	-	33	-	-	-	276	-	276
Integrated Disease Management	5	109	4	113	14	-	14	-	-	-	123	4	127
Bio-control of pests and diseases	1	14	-	14	2	-	2	-	-	-	16	-	16
Production of bio control agents and bio pesticides													
Others, if any													
VIII Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII Others (Pl. Specify)													
TOTAL	**57**	**778**	**351**	**1229**	**147**	**129**	**276**				**935**	**482**	**1505**
(B) RURAL YOUTH													
Mushroom Production	2	36	11	47	5	-	5	-	-	-	47	5	52
Bee-keeping	1	12	-	12	2	-	2	-	-	-	14	-	14
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture	1	10	7	17	3	-	3	-	-	-	13	7	20
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													

Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	1	15	3	18	2	-	2	-	-	-	17	3	20
Sheep and goat rearing	1	17	3	20	5	-	5	-	-	-	22	3	25
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology	1	8	14	22	-	1	1	-	-	-	8	15	23
Tailoring and Stitching													
Rural Crafts	1	-	22	22	-	3	3	-	-	-	-	25	25
Others, if any													
TOTAL	**8**	**98**	**60**	**158**	**17**	**4**	**21**	**-**	**-**	**-**	**115**	**64**	**179**
(C) Extension Personnel													
Productivity enhancement in field crops	2	77	7	84	8	-	8	-	-	-	85	7	92
Integrated Pest Management	1	40	-	40	3	-	3	-	-	-	43	-	43
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	8	13	21	2	2	4	-	-	-	10	15	25
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Any other (Pl. Specify)													
TOTAL	**4**	**125**	**20**	**145**	**13**	**2**	**15**	**-**	**-**	**-**	**138**	**22**	**160**

Please furnish the details of training programmes **as Annexure in the proforma** given below

Date	**Clientele**	**Title of the training programme**	**Duration in days**	**Venue (Off / On Campus)**	**Number of participants**			**Number of SC/ST**		
					M	**F**	**T**	**M**	**F**	**Total**
		Crop Production								
20-21.4.12	PF	Seed Treatment and method of sowing summer moong.	2	On	26	05	31	-	-	-
	PF	Irrigation and Fertilizer Management in summer Moong	2	On	7	19	26	1	5	6
	PF	Nursery management in SRI Paddy.	2	On	5	21	26	2	21	23
	PF	Package of practices ofPaddy Production.	2	On	28	-	28	3	-	3

	PF	Precaution taken during the time of paddy transplanting (Trditional vs SRI)	2	On	21	10	31	5	9	14
	PF	Transplantating of paddy under SRI (a motivational training for skill development in farm women)	2	Off	42	16	58	-	16	16
	PF	Alternate crop plan for Kharif season under drought.	2	On	29	-	29	-	-	-
	PF	Importance of Bio-fertilizers for sustainable Agriculture.	2	On	29	1	30	5	-	5
	PF	Seed Treatment in Rabi crops-("A multipurpose technique")	2	On	25	-	25	7	-	7
	PF	Production techniques in Wheat.	2	Off	30	-	30	6	-	6
	PF	IWM in Wheat for profitable production.	2	On	20	-	20	1	-	1
	PF	Production techniques in late sownWheat.	2	Off	24	-	24	4	-	4
	PF	Fertilizer and irrigation management in Wheat.	2	Off	22	-	22	5	-	5
	EF	Seed treatment and package of production of summer moong	2	Off	85	7	92	-	-	-
		Plant Protection								
01/02-06-12		Integrated pest management in stored grain.	2	Off	17	-	17	-	-	-
11/12-6-12		Integrated pest management in Rice.	2	Off	27	-	27	2	-	2
19/20-6-12		Integrated disease management in Kharif Paddy.	2	On	24	-	24	4	-	4
21/22-6-12		. Integrated pest management in okra	2	Off	27	-	27	6	-	6
12/13-7-12		Integrated pest management in Maize.	2	Off	24	-	24	4	-	4
19/20-7-12		Integrated management of Yellow mosaic virus in Okra.	2	On	34	-	34	4	-	4
21/22-8-12		Integrated pest management in brinjal	2	On	48	-	48	7	-	7
28/29-9-12		Management of brown plant hopper in paddy	2	On	21	-	21	3	-	3
11/12-10-12		Integrated pest management in cole crops	2	On	21	-	21	2	-	2
26/27-10-12		Integrated pest management in rabi crops	2	On	23	-	23	1	-	1
2/3-11-12		Integrated pest management in oil seeds	2	Off	16	-	16	-	-	-
16/17-11-12		Integrated pest management in pulses	2	On	20	-	20	2	-	2
14/15-12-12		Pod borer management in gram	2	On	17	-	17	1	-	1
28/29-12-12		Integrated disease management in potato	2	Off	28	4	32	2	-	2

18/19-1-13		Importance of seed treatment in wheat	2	On	16	-	16	2	-	2
12/13-2-13		Integrated pest management in zaid crops	2	Off	18	-	18	3	-	3
18/19-2-13		Protection technology in summer moongbean	2	Off	18	-	18	4	-	4
		Home Science								
4-4-12	PF	Preparation of papad/use of papad press machine	1	On	17	25	32	7	3	10
5-4-12	PF	Value addition of pulsesby use of grader machine	1	On	16	4	20	5	2	7
16-4-12	PF	Minimization of nutrients loss during cooking	1	On	3	13	16	-	2	2
20-4-12	PF	Value addition of locally available seasonal fruits and vegetable	2	Off	3	11	14	-	2	2
16/17-8-12	PF	Food processing-Preparation of tomato and chilli sauce	2	On	10	18	28	6	9	15
21/22-8-12	PF	Preparation of jam , Jelly from fruits	2	Off	10	17	27	6	9	15
24/25-9-12	PF	Women empowerment through different income generating activities	2	Off	-	26	26	-	10	10
17-10-12	PF	Mushroom production – technical problems & their solutions	1	On	19	5	24	5	2	7
18-10-12	PF	Oyster mushroom production technique	1	On	11	6	17	1	1	2
19/20-10-12	PF	Women Self Help Group formation and its function	2	Off	9	19	28	5	3	8
6-11-12	PF	Minimization of nutrition loss during cooking	1	On	6	18	24	-	-	-
7-11-12	PF	Low cost high nutrition foods available in rural areas	1	On	1	24	25	-	3	3
11/12-3-13	PF	Value addition of different fruits &vegetables	2	Off	-	32	32	-	2	2
		Live stock Production and Management								
24-4 -12	PF	Scientific management of animal	1	Off	16	5	21	2	1	3
3-5-12	PF	Sterility and importance of nutrients	1	Off	23	4	27	4	-	4
26-6-12	PF	Management of pregnant animal	1	Off	3	16	19	-	3	3
9-7-12	PF	Management of animal during rainy season	1	Off	7	9	16	-	-	-
6-8-12	PF	Feeding schedule of dairy animal	1	Off	18	6	24	2	-	2
19-9-12	PF	Importance of dewormer	1	Off	18	6	24	-	2	2
18-10-12	PF	Economic goatry for meat production	1	Off	9	5	14	1	5	6

19-10-12	PF	Poultry management	1	Off	13	18	31	2	5	7
7-11-12	PF	Scientific feeding management for milch animal	1	Off	6	15	21	1	3	4
8-11-12	PF	Vaccination and deworming	1	Off	3	7	10	-	-	-
9-12-12	PF	Importance of vaccination in goat	1	Off	-	31	31	-	6	6
31-1-12	PF	Management of animal in winter season	1	On	17	2	19	1	-	1

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	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	
1, Mushroom	Income generation	Mushroom Production	6 days	27	6	33		10	15	
2, Mushroom	Income generation	Mushroom Production	6 days	14	5	19		8	8	
3.Dairy	Dairy Management	Dairy Management	6 days	17	3	20	-	-	-	-
4. Vermicomposting	Organic input	Vermicompost	6 days	13	7	20	-	16	16	-
5.Goat	Goatry Management	Goatry Managemen	6 days	22	3	25		4	5	1
6.Fruit & vegetables	Value Addition	Processing of fruits & vegetables	6 days	8	15	23	-	4	6	-
7.Bee keeping	Income generation	Bee keeping	6 days	14	-	14		8	8	-
8.Rural craft	Skill development	Fabric painting & tie dye	6 days	-	25	25		4	5	

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No	Title	Duration (days)	Client PF/RY/EF*	No. of courses	No. of Participants				Sponsoring Agency
					Others	SC	ST	Total	

1	Bagicha Bacho Abhiyan for farmers of Manpur & Wazirganj Block	1	Farmers Manpur and Wazirganj	5	45	10	-	55	ATMA/Bihar Govt.
2	Inaugration of Kisan club & KVK Visit	1	Members Kisan club	5	42	10	-	52	NABARD
3.	Training on SRI Method of transplanting	1	Women trainers	1	108	392	-	500	ATMA/Bihar Govt.
4.	Training & Visit of SHG for Back stopping in Agril. Sector	1	P/F.(Kisan club)	5	38	08	-	46	NABARD
5.	Members of Kisan club Banke Bazar	1	P.F	1	41	09	-	50	NABARD
6.	Inauguration of Kisan Club of Barachatti & KVK Visit.	1	P.F	5	25	06	-	31	NABARD
7.	Stakeholder meet	1	Dealers	5	50	-	-	50	NFL
8	Pest management in Paddy	1	PF	1	62	08	-	70	BASIX
9	Effect of Potash in control of diseases in crop	1	PF&Dealer	2	276	24	-	300	IPL&Agri.Dptt.
10	Poultry Farming	1	PF	1	24	04	-	28	BASIX
11	IPM	1	PF	1	31	04		35	BASIX
12	Imp.Seed Treatment	1	PF	1	29	03		32	BASIX
13	Pest Management in Paddy	1	PF	1	25	03		28	BASIX
14	Cpacity building in self help group	1	PF	2	35	08		43	ATMA
15	Inauguration of Kisan Club of manpur& KVK Visit.	1	PF	5	22	03		25	NABARD
16	Inauguration of Kisan Club of dhobhi & KVK Visit.	1	PF	5	13	04		17	NABARD
17	Training of Extention Functionaries "Hari Chadar Yojna''	8	EF	8	376	24		400	DAO
18	Kharif Mahotsav	10	PF	10	3845	125		3970	DAO
19	Rabi Mahotsav	10	PF	7	2119	155		2274	DAO
	Total	**44**		**71**	**7206**	**800**		**8006**	

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	137	13	150	-					150
Kisan Mela	3									Mass
Kisan Ghosthi /kisan chaupal	32	630	138	768						768
Exhibition	5									Mass
Film Show										
Method Demonstrations	10	78	122							200
Farmers Seminar										
Workshop	1									-
Group meetings	17									-
Lectures delivered as resource persons	6									Mass
Newspaper coverage	56									mass
Radio talks	1									
TV talks	3									
Popular articles										
Extension Literature										
Advisory Services	256	226	30	256						256
Scientific visit to farmers field	118	409	84	493						493

Farmers visit to KVK	496	376	120	496						496
Diagnostic visits	10									10
Exposure visits	2									100
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet	6	245	27	272						272
Self Help Group Conveners meetings	2	56	37	93						93
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	3									Mass
Any Other (Specify)										
Kishi Vikash Utsab										
Technical bulletin	6									Mass
Total										

3.5 Production and supply of Technological products

Village seed

Crop	variety	Quantity of seed (q)	Value (Rs)	Number of farmers provided
Cereals				
Oilseeds				
Pulses				
Commercial crops				
Vegetables				
Flower crops				
Spices				
Fodder crop seeds				
Fiber crops				
Forest Species				
Others				
Total				

KVK farm

Crop	variety	Quantity of seed (q)	Value (Rs)	Number of farmers provided
Cereals				
Wheat	DBW-14(F S)	23.33	76164.00	
	K-9107(T L)	4.46	11596.00	
Paddy	Sahbhagi	49.53	52010.00	
	Kasturi	17.54	30100.00	
	R. Sweta	1.06	2350.00	
	R A U 3036	0.33	515.00	
	R Bhagawati	0.58	1201.00	
Oilseeds				
Rai	R. Anukul	7.09	24138.00	
Pulses				
Lentil	Arun(F S)	5.23	23222.00	
	Arun(T L)	4.01	13835.00	
Moong	P D M 139 (T L)	2.15	14000.00	
Commercial crops				
Vegetables				
Flower crops				
Spices				
Fodder crop seeds				
Fiber crops				
Forest Species				
Others				
|Dhaicha	Local	4.22	11700.00	
Total		**119.53**	**260831.00**	

Production of planting materials by the KVKs

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers provided
Commercial				
Vegetable seedlings				
Fruits				
Guava				
Amla (Furit)		87.0Kg	1392.00	10
Mango				
Ornamental plants				
Medicinal and Aromatic				
Plantation				
Nimbu		04 Plants	80.00	04
Spices				
Tuber				
Banana (Furit)		83.2 dz.	998.00	20
Ponch		31 suckers	155.00	18
Fodder crop saplings				
Forest Species				
Others(				
Mushroom(veg)		18.5 Kg	1110.00	10
Total				

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers	No. of KVKs
Bio Fertilisers					
Bio-pesticide					
Bio-fungicide					

Bio Agents					
Others					
Total					

Production of livestock materials

Particulars of Live stock	**Name of the breed**	**Number**	**Value (Rs.)**	**No. of Farmers**	**No. of KVKs**
Dairy animals					
Cows					
Buffaloes					
Calves					
Others (Pl. specify)					
Poultry					
Broilers					
Layers					
Duals (broiler and layer)					
Japanese Quail					
Turkey					
Emu					
Ducks					
Others (Pl. specify)					
Piggery					
Piglet					
Others (Pl.specify)					
Fisheries					
Indian carp					
Exotic carp					
Others (Pl. specify)					
Total					

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

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

(A) KVK News Letter

Date of start	Periodicity	Number of copies distributed
Oct-Dec2012, Jan-Mar2013	Quarterly Quarterly	1000 1000

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports	1. Annual report (April 2012-March 13) of KVK, Manpur, Gaya 3. Quarterly report (April12- March 13) --4	KVK Gaya	

	4. Action Plan(April 13- March 14) 5. Extension Council meeting report-2. 6. Review meeting report-4 7. SAC Meeting report 2012 8.P M O Report on skill development 9.Technology week report		
News letters	Krisak Samachar (Vol 2)		
Technical bulletins	1.Bandhej Ek Kala 2.Mushroom Ke Byanjan 3.Dugdha Utpadan Labhadayak v. yavsay 4.Dhan Ke Liye Keet Nashi Rasayan 5.Keetnashako Ka Samuchit Upyog. 6.Paustik Aahar	Sinha Nidhi Sinha Nidhi Kumari Bibha Kumar, Ranjeet Kumar, Ranjeet Sinha Nidhi	
Popular articles			
Extension literature			
Others (Pl. specify)			
TOTAL			

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

(C) Details of Electronic Media Produced

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

(D) Details of HRD programmes undergone:

S. No.	Name of programme	Date and Duration	Organized by
1	**Cross-sectoral disaster risk reduction stretegies in live stock sector(Dr. Bibha Kumari)**	**29-5-12to18-6-12 (21days)**	**B.V.C.,Patna**
2.	**Orientation programme for P C(Dr. S. Chaurasia)**	**23-7-12 to25-7-12 (3days)**	**B A U Sabour**
3.	**Orientation programme for S M S(Dr. R. Kumar)**	**23-7-12to27-7-12 (5days)**	**B A U Sabour**
4.	**Crop management stretegies under changing climate(Dr. G. Kumar)**	**9-10-12to30-10-12 (21days)**	**G.B.P.U.A & T Pantnagar**

5.	**Advanced extension strategies for enterprenureship management in agro processing and value addition.(Dr. Nidhi Sinha)**	**11-12-12 to 31-12-12 (21days)**	**B.C.K.V. Kalyani Nadia**
6.	**Agropedia (Dr. G. Kumar)**	**18-12-12 (1days)**	**B A U Sabour**
7.	**Orientation programme for Farm manager(Mukesh Kumar)**	**6-2-13 to 8-2-13 (3 days)**	**B A U Sabour**
8.	**Development of Manegerial skill of SMS.(Dr. Nidhi Sinha)**	**6-2-13 to 8-2-13 (3 days)**	**A.R.I, Patna**

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

3.7.1. Success story of Progressive Women Smt Sangeeta of Ashoknagar, Choundati block

Smt Sangeeta wife of Sri Ramesh Kumar 31 years old graduate women of Ashoknagar of Choundati block is a simple house wife. Her household status was not so good her husband was small businessman having earning of 10,000.00 Rs per month. After getting training on Mushroom cultivation from the KVK Gaya, She started for Mushroom production as a side business besides her routine work to look after her house ,old mother-in-law and two little kids of 5 & 3 years. That was probably the most feasible reason she doesn't move outside the home for any kind of job she just decided for Mushroom cultivation to be done by residing at home. In last season she started her work and prepared approximately 800 bags out of 80 kg of Mushroom spawn and produced more than 350 Kg of Mushroom and sold it in market getting net profit of 25000.00 for the period of three months. Thus she supported her husband and family financialy by investing very less input cost .

2. <u>Success story of Sri. Bipin kumar of Guraru Block, Gaya</u>

Shri Bipin Kumar son of Sri Manoj Prasad of Dihha village of Guraru Block.He isworking on IFS model of poultry,fisheries and agriculture specially vegetables cultivation

for his earnings.He came in contact with this KVK in 2009 and decided for Agriculture as his main occupation.Every Enterprises to be adopted scientifically to earn maximum profit. Through Poultry he earned above 60000/-per annumin four crops of poultry in 2000sq ft area.He has developed a pond in his farm in a 2 hact area for his fish culture and cultivating Rohu ,Katla,Silver corp,Grass corp etc.He is earning approximately 200000.00 Rs from his pond.He has focussed his attention on cultivation of vegetable crops and last year he has earned almost 100000.00 Rs from vegetable crops i.e. chickpea,tomato,brinjal,chillies,potato,lentil and sarson etc.He has cultivated wheat and rice as main crops and earned approximately 40000.00 Rs from it His total outlay is of 350000.00 to 400000.00 Rs.His achievement identified him one in thousand and lakhs as Role model for other farmers of the district.

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

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

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

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

3.11 Field activities

i. Number of villages adopted **: 05**
ii. No. of farm families selected
iii. No. of survey/PRA conducted

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab

1. Year of establishment :

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

3.13 Activities of rain water harvesting structure and micro irrigation system

No of training programme	**No of demonstrations**	**No of plant material produced**	**Visit by the farmers**	**Visit by the officials**

1.14 Technology week celebration

S. N.	**Date**	**Topic of Seminar**	**Male**	**Female**	**EF**	**Total**
1	27-2-13	**Crop Production**	159	49	18	226
2	28-2-13	**Horticulture**	35	12	3	50
3	1-3-13	**Women Empowerment**	33	42	6	81
4	2-3-13	**Animal Husbandry**	67	22	1	90
5	3-3-13	**Entrepreneurship Development**	56	33	1	90

Type of activities	**No. of activities**	**Number of participants**	**Related crop/livestock technology**
Crop Production (27-2-13)	**5**	**226**	**Registration** **i Weed/Fertilizer Management in Wheat** **ii. Integrated Pest Management in Pulse crop.** **iii Inaugral Session.** **Welcome and Introduction.** **iv Inauguration of technology Week.** **v Address by guests.** **Field Visit.**
Horticulture (28-2-13)	**5**	**50**	**Technical Session** **i. Production Technology of Summer vegetables.** **ii. Flower Production . Marigold,Rose, Gladiolus,Jerbera,Tube-rose** **Lunch** **Technical Session** **i. Polyhouse technique** **ii. Integrated pest Management in Mango/ Guava** **Registration**
Women Empowerment (1-3-13)	**5**	**81**	**Technical Session** **i. Women Nutrition and Health.** **ii. Women Self Help Group Formation & Functioning** **Lunch** **Technical Session**

			i. Backyard Poultry **ii. Nutritional Security through Kitchen Gardening.** **Registration**
Animal Husbandry (2-3-13)		**90**	**Technical Session** **i. Women Nutrition and Health.** **ii. Women Self Help Group Formation & Functioning** **Lunch** **Technical Session** **i. Backyard Poultry** **ii. Nutritional Security through Kitchen Gardening.** **Registration**
Entrepreneurship Development (3-3-13)	**5**	**90**	**Technical Session** **i. Honey bee Management** **ii. Dairy Management** **iii. Integrated Farming System.** **Lunch** **Technical Session** **i. Vermicompost Production** **ii. Mushroom Production.** **Validatory Ceromony**

3.15 RAWE programme

Is KVK is involved?NA

No of student/ARS trained	**No of days stayed**

3.16 NICRA Project NA

Programme implemented	**No of village covered**	**No of beneficiary covered**	**Amount of fund received**	**Amount of fund utilized**

3.17. List of visitors including the officials of ZPD and DEE

Date	**Name of the person**	**Designation**	**Purpose of visit**
13-4-12	**Dr. M.L. Choudhary**	**, Vice- Chancellor, BAU,Sabour**	**KVK Visit**
-6-12	**Dr. Shivnath Das,**	**Asst. prof.,AICRP**	**KVK Visit**
26-8-12	**Dr. A. K. Singh**	ZPD,ZoneII	SAC Meeting
26-8-12	Dr.R.K.Suhane	D.E.E. BAU Sabour	SAC Meeting
26-8-12	Dr.A.P.Singh	R.D. ARI Patna	SAC Meeting
26-8-12	Dr. R. K. Sinha	P S . ARI Patna	SAC Meeting
26-8-12	Dr.Ajay Kumar	P S . ARI Patna	SAC Meeting
29-8-12	Dr. R.K. Malik	Hub coordinator CSISA	Training of stakeholders
29-8-12	Sri M.M. Srivastav	Manager marketing NFL	Training of stakeholders
29-8-12	Dr. Ravikant	T O CSISA	Training of stakeholders
19-9-12	**Dr. K.D. Kokate**	**D D G Ext. ICAR,New Delhi**	**KVK Visit**

19-9-12	**Dr. A. K. Singh**	ZPD,ZoneII	**KVK Visit**
19-9-12	Dr.R.K.Suhane	D.E.E. BAU Sabour	**KVK Visit**
	Sri Sarda Nath	DDM, (NABARD)	Kisan club Training
9-12-12	Sri Sunil Kumar	Director DRDA,Gaya	KVK Visit
9-12-12	**Dr. A. K. Singh**	ZPD,ZoneII	KVK Visit
18-12-12	**Dr. Dominic Glover**	**Member of research group of tech. From Netherland**	KVK Visit
20-12-12	**Dr.Nimisha Mittal**	**S R F CPISP**	Research study
11-1-12	**Miss.Swadha Taparia**	**IFS Under trainee**	KVK Visit
20-1-13	**Dr. V. P. Singh**	**Director C P R I Shimla**	Kisan Gosthie
20-1-13	**Dr. Manoj Kumar**	**Director C P RS Patna**	Kisan Gosthie
27-2-13	Dr.M.L .Chaudhari	Vice Chancellor BAU Sabour	Technology week
27-2-13	Dr.R.K.Suhane	D.E.E. BAU Sabour	Technology week
27-2-13	Dr.A.P.Singh	R.D. ARD Patna	Technology week KVK farm visit
27-2-13	Dr. Asan Singh	Asst. Professor BAU Sabour	Technology week
27-2-13	Dr.Ramdat Singh	Asst. Professor BAU Sabour	Technology week
2-3-13	Dr.Sanjeev Kumar	P.C.K.V.K .Nalanda	Technology week
2-3-13	Dr. J.R. Mallik	D.A.H.Officer	Technology week
2-3-13	Dr.Sunil Kumar	B.A.H.Officer	Technology week
1-3-13	Niraj Kumar Verma	D.P.D. Gaya	Technology week
	Sudama Singh	District Adviser NFSM	Technology week

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)
SRI Technique		60-70%	16000	26000
Use of Rhizobium		60%	32000	36000
Change in cropping system		42%	100000	166000
Deworming in animal		10%	3750	4025
FMD in animal		20%	5000	8000
Formulation of balance diet		17%	4000	5000
Value- addition of fruits & vegetable		5%	2000	3500
Women empowerment and income generation through Mushroom production		30%	500	3000
Zero tillage		45%	51000	54000

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

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

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

- Vocational training started in goatry, dairy, poultry mushroom etc. after the training 6 goatory unit up gradation in dairy unit and poultry unit and 4 mushroom commercial unit have been started through SHG.
- Popularization of SRI technique in Paddy, Wheat vegetable and oil seeds.
- About 5 quitals of Dhaicha seed produced and sold among the farmers to maintain soil health during reported period.
- Popularization of high yielding variety of Paddy ie sahbhagi tried at farm field to introduced among farmers,
- This Kendra has popularized Rai Var. R. Suflam and R. Anukaul, Lentil- Arun , HUL57 under low water and low fertilizer condition.
- Popularization of different drugs for the treatement of sterility in dairy animals.
- Popularization of ectoparasiticids on dairy animals for disease management increasing milk production & health of dairy animal
- Popularization of Papad making Machine
- Popularization of mushroom production through supply of spawn
- Popularization of zero tillage technique for wheat Production.
- . Popularization of eco-friendly and safe insecticide i.e.Fipronil, Indoxacarb Emamectin Benzoate.

4.5 Details of innovations recorded by the KVK : Mushroom

4.6 Details of entrepreneurship development by the KVK : Honey bee, Mushroom, vermicompost, Goatry, Poultry,

4.7 Any other initiative taken by the KVK : SRI Oil seed & Vegetable

4.8 Area not covered by the above or constraints or new proposal for XII plan

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. District Agriculture Officer, Gaya	Training to farmers & Extension functionaries
2. Agricultural Technology Management Agency (ATMA), Gaya	Training, Field day, Kisan Mela
3. District Horticulture Office, Gaya	Training
4.Bihar State Forest Development Corporation, Gaya	Training
5. Sugarcane Development Department, Gaya/Patna.	Training / Exhibition / Seminar
6. District Soil Conservation Department, Gaya.	Training
7. National Fertilizer Limited, Gaya.	Seminar, Field day, Training
8. Indian Farmers Fertilizer Co. (IFFCO) Gaya.	Field day, Seminar, Training
9. Tata Chemical Ltd., Gaya.	Seminar, Training,
10. Roji – Roti (NGO), Manpur, Gaya.	Training
11. Micro-Mode Management Project Govt. of Bihar, (RAU, Pusa)	Field Demonstration.
12. National Horticulture Mission Govt. of Bihar (RaU, Pusa)	Model Horticultural Nursery.
13. Agricutural Research Institute Patna.	Nursery Development of Medicinal & Aromatic Plants.
14. Pradan Gaya –	Training, field day
15. ICAR- Research complex for eastern region, Patna	Demonstration on LEWA irrigation system
16. Paradeep Phosphates Limited, Gaya	Field day,
17. Bihar Agriculture Management & Extension Training Institute, Patna	Participation in meeting, Conducting Training Programme, joint implementation etc.

.!8 NABARD	Training,
19.DRDA,Gaya	Training,Infracture development
20. BASIX	Training

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

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

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

1.Micro Mode Management Project, Govt. of Bihar	**Demonstration**	**03.10.06**	**RAU,Pusa**	**07.37**
2. National Horticulture Missions.	Model Nursery	**25.09.06**	**RAU, Bihar, Pusa**	**18.00**
3. Nursery development of Medicinal & Aromatic Plants**.**	Demonstration	**4.5.07**	**ARI, PATNA**	**00.50**
4. ISOPOM	Demonstration & training	**20.01.07**	**ARI, PATNA**	**00.32**
5. Adoption of Frontline Technologies	Refinement & Assessment	**28.11.08**	**ATMA, Gaya**	**1.00**
6. On Farm Training of Farmers	Training	**24.03.09**	**ATMA, Gaya**	**4.80**
7. Goatry Demo. Unit	Demo.	**April. 11**	**ATMA, Gaya**	**1.00**

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

6.2 Performance of instructional farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy									
Pulses									
Lentil									
Oilseeds									
Rai									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

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

6.4 Performance of instructional farm (livestock and fisheries production)

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

6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2011			
March 2012			

(For whole of the year)

6.5 Utilization of staff quarters

Whether staff quarters has been completed:
No. of staff quarters:
Date of completion:

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
April 2012						

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute			
With KVK	Punjab National Bank	Dhami Tola, Gaya	0179000100225627(Main) 0179000100225636(R/F)

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif 2012	Rabi 2012 -13	Kharif 2012	Rabi 2012-13	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2012
	Kharif	Rabi	Kharif	Rabi	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.5 Utilization of KVK funds during the year 2012 -13 (estimated)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances and 6th CPC**	3500000.00	3500000	3328795

2	**Traveling allowances**	90000.00	90000	90000
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	550000.00	550000	550000
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			
TOTAL (A)		**4140000**	**4140000**	**3968795**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

7.5 Status of revolving fund (Rs. in lakh) for last years (estimated)

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
April 2012 to March 2013	145596	263793	169181	240208

7.6 Any other significant achievements (provide full details with action photograph)

7.7 Number of SHGs formed by KVKs/associated with SHGs formed by other organizations indicating the area of SHG activities.

7.8 Details of marketing and financial opportunity created for the SHGs

7.9 Special programme on Food and Nutrition :

i) On farm trials conducted on food and nutrition:
Title, results, no. of beneficiaries and other information.
ii) FLD conducted on food and nutrition
Title, results, no. of beneficiaries and other information
iii) Awareness programme conducted on food and nutrition for Anganwadi workers and others
iv) Total Anganwadi workers trained indicating area of training:
v) Number of exhibition, fair, workshops organized on food and nutrition:

7.10 Community Radio Station :

i) Date of start of Community Radio Station
ii) Details of programme aired through Community Radio Station and frequency of such programme
iii) Whether any proposal is pending for establishment of CRS at KVK, if yes, date of submission of proposal

7.11 KMAS Service

Mobile Advisory								
			Type of messages					
No. of calls	No. of farmers covered	No. of messages	Crop (no.)	Livestock	Weather	Marketing	Awareness	Other enterprise

7.12 Performance of Automatic Weather Station/ Weather Station in KVK

i) Parameters are being recorded

ii) Advisory service based on weather data being provided to

a) Number of farmers

b) Departments with name and number

c) Other agency with name and number

7.13 Joint activity carried out with line departments and ATMA

Name of activity	Season	With line department	With ATMA	Both
Kharif Mahatsov	Kharif	District Agriculture Department		
Rabi Mahatsov	Rabi	-do-		
Kishan Samagam		-do-		
Udayn Mahatsov		-do-		
Kisan Mela		-do-		
Krishi yathrickaran Mela		-do-		

Programme coordinator