

ANNUAL REPORT 2007-08

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Dhanbad Baliapur farm, Dhanbad-828201.	Office 0326-2901467 09431711339	FAX	kvkdhanbad@rediffmail.com

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

Address	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Ranchi, Jharkhand.	0651-2450849	0651-2450525	-

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Ashok Kumar	09431711339	09431711339	-

1.4. Year of sanction: 2005

1.5. Staff Position (as on 30th September 2007)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. Ashok Kumar	P.C	Agronomy	12000-18300	01.12.07	P	Gen
2	Subject Matter Specialist	Dr. Jayant Kumar Lal	SMS	Soil Science	8000-13500	01.12.07	P	Gen
3	Subject Matter Specialist	Smt. Anjali Mishra	SMS	Home Science	8000-13500	16.01.07	P	Gen
4	Subject Matter Specialist	Sri Rajeev Kumar	SMS	Agril. Engg.	8000-13500	11.12.07	P	Gen
5	Subject Matter Specialist	Dr. Adarsh Kr. Srivastava	SMS	Agril. Extn.	8000-13500	04.04.05	P	Gen
6	Subject Matter Specialist	Sri Navin Kumar	SMS	Plant Protection	8000-13500	11.12.07	P	Gen
7	Subject Matter Specialist	Mrs. Elisma Xaxa	SMS	Plant Pathology	8000-13500	10.01.08	P	ST
8	Programme Assistant	Sri Sunil Kr. Pandey	Tech. Asstt. (A.V. Aids)		5500-9000	06.04.05	P	Gen
9	Computer Programmer	Sri Mithilesh Kumar	Computer Assistant		5000-8000	18.07.05	P	Gen
10	Farm Manager	Sri Sanjay Kumar	Farm Manager		5500-9000	01.03.05	P	Gen
11	Accountant / Superintendent	Contractual	-	-	Consolidated	-	T	-
12	Stenographer	-do-	-	-	-do-	-	T	-
13	Driver	-do-	-	-	-do-	-	T	-
14	Driver	-do-	-	-	-do-	-	T	-
15	Supporting staff	-do-	-	-	-do-	-	T	-
16	Supporting staff	-do-	-	-	-do-	-	T	-

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	2
2.	Under Demonstration Units	-
3.	Under Crops	1.4
4.	Orchard/Agro-forestry	1
5.	Others	5.6

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	Before 31.03.2007					
2.	Farmers Hostel	ICAR	-do-					
3.	Staff Quarters (6)	ICAR	-do-					
4.	Demonstration Units (2)	ICAR	Before 30.11.2007					
5	Fencing	ICAR	Incomplete					Incomplete (completed only front side)
6	Rain Water harvesting system	ICAR	-					Incomplete
7	Threshing floor	B.A.U	Before 31.03.2007					
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2006	--	364 hrs	Working
Tata Sumo	2006	500000	30774	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Desktop Computer set	2006	--	Working
Xerox	2007	--	Working
Digital Camera	2007	14512.50	Working

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

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	27.02.2008	30	1. PRA report should be documented within 3 months. 2. There should be two way communications between KVK and line departments / NGOs. 3. Seed production in seed villages should be started to meet out the paucity of quality seed at village level in the collaboration with other Agencies. 4. Programmes of KVK should be communicated to other concerning agencies of the district. 5. A mechanism should be developed by consulting a group of farmer / NGOs for easy transmission of technologies. 6. Action taken report should be prepared in detail. 7. Proceeding should be circulated among all members after approval of DEE, BAU. 8. Follow up training programmes specially under rural youth category should be done. 9. List of trained farmers should be sent to lead bank as well as NABARD with full address. 10. Occupancy report of training hostel should be properly maintained. 11. The infrastructure of Bazaar Samiti should be utilized in the interest of farmers. 12. Medicinal plants & aromatic plants which are known to farmers and not grazed by animals should be promoted. 13. More programmes should be taken on low water requiring oilseed, pulses and spices. 14. Home scientist should prepare OFT in respect to income generation. 15. Survey on weed flora under major crops should be done before formulating OFT on weed control and OFT on weed control in maize should be formulated. 16. In entrepreneurship development training programmes, a banker should be involved. 17. Large area should be taken in low cost FLDs. 18. Work on rain water harvesting, soil and water conservation & problematic soil should be started. 19. Work with ATMA should be documented. 20. A community radio in KVK should be established from ATMA, Dhanbad. 21. As there are several demonstration and training units at KVK and more works assigned, the budget of KVK should be increased.	As this SAC Meeting has been conducted on 27 February 2008, the action has been started as per recommendation

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

2. DETAILS OF DISTRICT (2007-08)

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

S. No	Farming system/enterprise
1.	Agriculture + Livestock
2.	Agriculture + Livestock + Poultry
3.	Agriculture + Horticulture
4.	Agriculture + Horticulture + Sericulture
5.	Agriculture + Fisheries + Duckery + Poultry

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

S. No	Agro-climatic Zone	Characteristics
1.	Zone – 7 Sub zone – IV	The region is characterised by hot climate undulating plateau, hills & mountains non-existence of perennial rivers, initially high forest cover which is depleting fast due to mineral & industrial exploitation and encroachment, pockets with chronic drought condition, erratic rainfall, low ground water table, high soil erosion, generally inefficient agricultural, dairy & fisheries activities except in command areas of major irrigation project, raising agricultural unemployment and acute rural poverty.

S. No	Agro ecological situation	Characteristics
1.	Sandy loan, rainfed, undulating	Soils are light textured having undulating topography & crops are grown under rainfed situation. No irrigation facility is available.
2.	Sandy loam, undulating, irrigated.	Soils are light textured having undulating topography with irrigation facility. The sources of irrigation are mainly wells and tanks.
3.	Clay soil, rainfed.	Soils are heavy textured, rich in organic matter and fertile. Crops are grown under rainfed situation. Only life saving irrigations is available.
4.	Heavily soil, undulating, rainfed / forest	Soils are heavy textured having undulating topography with no irrigation facility. Most of lands are under forest. Crops are grown under rainfed situation.

2.3 Soil type(s)

S. No	Soil type	Characteristics	Area in ha
1.	Stony & gravelly	Found near the foot hills. Thickness of soil is very less. Used only for recreation purpose and picnic spots.	
2.	Sandy soil	Locally known as balu found near the river soils. They are coarse textured having less water holding capacity & deficient in plant nutrients.	
3.	Loamy soil	Found near the hills. They are medium textured soil having low water holding capacity. These soils are under cultivation of various types of crops.	
4.	Clayey soil	Found near the tanks and rivers. They are heavy textured soil having high water holding capacity. These soils are fertile & very productive. Various type of crop and vegetables are grown.	

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Summer Rice	148		9.3
2.	Kharif Rice	36051		10.7
3.	Maize	1590		8.4
4.	Wheat	800		19.9
5.	Finger millet	158		7.2
6.	Chick pea	47		9.4
7.	Potato	99		93.7
8.	Onion	14		88.6

Source: - FAI Eastern Region, Kolkata (2002-03), Fertilizer and Agricultural Statistics eastern Region.

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	7.00AM	2.00PM
April 2007	17.0	43.0	17.0	74	32
May 2007	77.5	45.7	24.5	87	45
June 2007	59.6	46.7	26.1	92	57
July 2007	449.0	38.5	24.5	85	67
August 2007	419.5	37.9	24.8	88	66
September 2007	389.0	38.8	24.0	98	72
October 2007	12.5	34.9	20.7	89	50
November 2007	2.0	31.8	15.5	89	49
December 2007	Nil	30.5	10.0	80	49
January 2008	4.0	30.0	5.0	76	41
February 2008	10.3	32.8	8.8	83	37
March 2008	Nil	34.9	17.0	87	26

1) Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	24176		
<i>Indigenous</i>	458804		
<i>Buffalo</i>	78806		
Sheep			
<i>Crossbred</i>	200		
<i>Indigenous</i>	43166		
Goats	214396		
Pigs	214326		
<i>Crossbred</i>	2054		
<i>Indigenous</i>	686137		
Rabbits	463		
Poultry			
Hens			
<i>Desi</i>	177167		
<i>Improved</i>	59932		
Ducks	14141		
Turkey and others	411		

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

2.6 Details of Operational area / Villages (2007-08)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dhanbad	Baliapur	Sindurpur	Kharif- Rice, Ragi, Sesamum, Black gram, Red gram Rabi- Wheat, Mustard, Linseed, Gram, Lentil, Potato, Brinjal Summer- Moong, Ladyfinger, Bottle guard, Ridge guard.	1. Unavailability of quality seed. 2. Unavailability of quality insecticides. 3. Scarcity of irrigation water during Rabi & Summer. 4. Lack of knowledge about improved scientific cultivation. 5. High cultivation cost of paddy. 6. Damage of grains during storage.	1. Improvement of soil and water conservation practices. 2. Improvement in yield of monocrop rice. 3. Popularization of IPM measures for field and Horticultural crops. 4. Introduction of post harvest & value addition technology.
2.	Dhanbad	Baliapur	Palani	Kharif- Rice, Maize, Sesame, Black gram, Red gram, Vegetables. Rabi- Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage. Summer- Sesame, Moong, Ladyfinger, Cucurbits.	1. Unavailability of quality seed. 2. Unavailability of quality insecticides. 3. Scarcity of irrigation water during Rabi & Summer. 4. Lack of knowledge about improved scientific cultivation. 5. High cultivation cost of paddy. 6. Damage of grains during storage.	1. Improvement of soil and water conservation practices. 2. Improvement in yield of monocrop rice. 3. Popularization of IPM measures for field and Horticultural crops. 4. Introduction of post harvest & value addition technology.

2.7 Priority thrust areas

S. No	Thrust area
1.	Improvement of soil and water conservation practices
2.	Management of problematic soils.
3.	Popularization of integrated nutrient management practices
4.	Improvement in yield of monocrop rice.
5.	Diversification of traditional rice-based cropping system with appropriate commercialization
6.	Breed Improvement of cattle, pig and goat.
7.	Popularization of IPM measures for field and Horticultural crops.
8.	Introduction of post harvest & value addition technology.
9.	Entrepreneurship development of SHG groups.

3. TECHNICAL ACHIEVEMENTS

3.1. A. Abstract of interventions undertaken

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Improvement of soil and water conservation practices	All crops	1. Soil erosion 2. Scarcity of irrigation water 3. Low system productivity in rainfed situation	- Assessment of effective irrigation system in summer ladyfinger -	1. FLD on cover crop like groundnut-8 ha, gram-3 ha, lentil-2ha, Kulthi-5ha and water conservation crop like red gram 5 ha has been conducted. 2. Low irrigation water requiring crop like red gram-5ha, mustard -5ha, linseed -2ha, gram-3ha, lentil -2ha has been taken in FLD.	1. Use of different tillage implements for checking soil erosion. 2. Irrigation management in wheat. 3. Rain water harvesting technology for short duration.	1. Technique for increase water use efficiency.	1. Krishak Gosthi - 1 2. Krishak Helpline – 58 3. Extension literature – 2 4. Radio talk-1	Seed & other input under FLD.
2.	Management of problematic soils	All crops	1. Acidic nature of upland & medium land soils.	-	-	1. Use of lime in acid soils	1. Replication of problematic soils.	1. Krishak Gosthi – 1 2. Krishak helpline – 18	-

3.	Popularization of integrated nutrient management practices	All crops	1. Low system productivity in rainfed situation. 2. Low yield of major crops.	Integrated nutrient management in low land paddy. Effect of fertilizer and biofertilizer on yield of summer moong.	-	1. Use of biofertilizer in paddy. 2. Package & practices of red gram. 3. Use of Rhizobium culture in red gram. 4. Integrated nutrient management in summer moong. 5. Technique of nitrogen management in transplanted paddy. 6. Use of Rhizobium in Kharif pulses. 7. Top dressing in wheat. 8. Sulphur management in Toria / Rai / Mustard. 9. Potash management in potato. 10. Fertilizer management in summer vegetables.	-	1. Extension literature-1 2. Krishak Gosthi-1 3. Krishak helpline – 46 4. Newspaper coverage – 7 5. Radio talk-3	-
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4.	Improvement in yield of monocrop rice	Rice	a. Low yield of rice b. Low profitability in rice cultivation c. Unavailability of quality seed in local market.	-	Hybrid rice Variety- Arise 6444 in 5 ha	1. Improved technology of nursery raising for rice. 2. Production technique of hybrid rice. 3. Line transplanting of rice for better production. 4. Use of biofertilizer in paddy. 5. Seed production technology in paddy seed. 6. Integrated pest management in paddy.	1. Technology advances in production technology of scented & hybrid rice.	1. Krishak Gosthi-1 2. Krishak helpline-37 3. Extension literature-2 4. Newspaper coverage-8 5. Radio talk-1	Seed of hybrid rice, seed production and sale of improved rice variety.
5.	Diversification of traditional rice-based cropping system with appropriate commercialization	All crops	1. Low system productivity of rice based cropping system. 2. Risk of failure of rice crop is more due to excessing or scarce rainfall. 3. Low system profitability.	-	1. FLD on low irrigation water requiring crop like sesame, pigeon pea taken in upland situations. 2. High income providing crop like – groundnut taken to replace upland rice in Kharif.	1. Package and practices of pigeon pea. 2. Integrated nutrient management in Kharif pulses. 3. Disease and pest management in Kharif maize. 4. Use of Rhizobium in Kharif pulses.	1. Cropping system approach.	1. Krishak Gosthi-1 2. Krishak helpline-17 3. Newspaper coverage-4	Seed & other input in FLDs.

6.	Breed Improvement of cattle, pig and goat	Cattle, Pig & Goat.	1. Low yield of milk, pork & goat meat.	-	-	1. Ration computation, maintenance of trace minerals in local breeds. 2. Integrated fish-cum-duck-cum-pig farming. 3. Goat farming. 4. Pig farming. 5. Contiginious disease of dairy animals & their vaccination programme.	1. Contiginious disease of dairy animals & their vaccination programme.	1. Krishak Gosthi-1 2. Krishak helpline-34 3. Extension literature-2 4. Newspaper coverage-3	
7.	Popularization of IPM measures for Horticultural crops	Vegetable	1. Low yield of vegetables. 2. High insect – pest attack in vegetable crops. 3. Lack of irrigation water in winter and summer season. 4. Unavailability of quality seeds.	1. Increasing yield through adopting seasonal variety of tomato during rainy season. 2. Assessment of effective irrigation system in summer ladyfinger.		1. Wilt management in vegetables. 2. Important disease of brinjal & its management. 3. Potash management in potato. 4. Disease and pest management in Cole crops.	-	1. Krishak helpline-28 2. Extension literature -1 3. Newspaper coverage-7	-

8.	Introduction of post harvest & value addition technology.	All crops.	1. Poor market facility to sale the fresh production in agriculture. 2. No infrastructure for presentation. 3. No any processing industry. 4. Lack of knowledge.	-	-	1. Preparation of squash, jam, jelly. 2. Value addition in pulse crops. 3. Production of Soya sauce. 4. Value addition in seasonal vegetables.	-	1. Mahila Gosthi-1 2. Krishak helpline-7 3. Newspaper coverage-4	-
9.	Entrepreneurship development of SHG groups.	Entrepreneurship development	1. Low profitability in traditional farming. 2. High risk in traditional farming.	-	-	Seed production technology of paddy. Pig farming. Value addition in seasonal vegetables. Mushroom cultivation. Goat farming. Cattle farming. Rice nursery raising.	1. Management of SHG groups.	Krishak gosthi-2 Krishak helpline-29 Newspaper coverage-8 Radio talk-1	

3.1. B. Details of On Farm Trial:

RESULTS OF ON FARM TRIAL KHARIF 2007:

1. **TITLE:** Increasing yield through adopting seasonal variety of Tomato during Rainy Season.
2. **Problem diagnose:** Low yield of Tomato in rainy season.
3. **Details of technologies selected for assessment/refinement:**
T₁- Farmer's practices. Planting in field (bed) then earthing after 1 month.
T₂- Arka Abha + Farmers practices.
T₃- Arka Abha + RD (recommended dose) + MR (Mechanized Ridge)
T₄- Arkha Abha + RD (N:P:K:: 90:60:60)
Replication: 10.
Design: RBD.
4. **Source of technology:** State Agricultural University and HARP, Palandu.
5. **Production system and thematic area:** Production and management of vegetable.
6. **Performance of the Technology with performance indicators:**

Sl.	Treatment	Mean yield (Q/ha)	Increased in yield	
1.	T ₁	48.34	-	-
2.	T ₂	97.25	48.91	101.17
3.	T ₃	142.63	94.29	195.05
4.	T ₄	103.41	55.07	113.92

CD (0.05) = 8.46

7. **Final recommendation for micro level situation:** Highest yield was observed in treatment T₃ which is highly significant in yield compare to control and also significant yield were found in T₄ & T₃ respectively as compare to check.
Hence, Arka Abha cultivation on mechanized ridge with recommended dose (N:P:K:: 90:60:60) of fertilizer is being recommended for micro situation like upland of Dhanbad district during Kharif.
8. **Constraints identified and feedback for research:** Unavailability of seed in local market.
9. **Process of farmers participation and their reaction:**
 1. Farmers – scientists interaction programmes through visit at OFT sites.
 2. Kishan Gosthi at OFT sites.

RESULTS OF ON FARM TRIAL KHARIF 2007:

1. **TITLE:** Integrated nutrient management in low land paddy.

2. **Problem diagnose:** Low yield of low land paddy..

3. **Details of technologies selected for assessment/refinement:**

T₁- Farmers practices. (DAP 20 Kg/ h, urea 25 Kg/h)

T₂- Farmers practices +BGA @10 Kg/ h

T₃- Farmers Practices + BGA @10 Kg/h + K₂O @ 25 kg/h

Replication: 10.

Design: RBD.

4. **Source of technology:** Birsa Agricultural University, Ranchi.

5. **Production system and thematic area:** Integrated nutrient management.

6. **Performance of the Technology with performance indicators:**

Sl.	Treatment	Yield (Q/ha)	B:C ratio	Post harvest soil analysis				
				pH	Organic carbon (%)	Available N mg/Kg	Available P mg/Kg	Available K mg/Kg
1.	T ₁	23.5	1.22:1	5.80	0.56	126.0	12.6	28.4
2.	T ₂	33.7	1.75:1	5.92	0.68	138.2	12.9	26.2
3.	T ₃	41.1	2.06:1	6.08	0.72	140.4	10.1	31.4
4.	CD (0.05)	1.14	-	-	-	-	-	-
5.	Initial	-	-	5.72	0.48	123.6	10.8	24.6

C.D(0.05) = 6.08

7. **Final recommendation for micro level situation:** Highest yield was obtained in the treatment T₃ which is significantly high as compare to the other treatment. Due to addition of Biofertilizer and potassium 74.89% increase in yield as compare to farmer practices and it is recommended for low land paddy cultivation in Dhanbad district.

8. **Constraints identified and feedback for research:**

1. BGA is not available in local market.
2. After application of urea as top dressing, the growth of BGA was negatively affected.
3. After application of insecticides (furadon) the BGA mat was badly affected.

9. **Process of farmers participation and their reaction:**

1. Farmers – scientists interaction programmes through visit at OFT sites.
2. Kishan Gosthi at OFT sites.

3.1. C. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Tomato	Upland	Low yield of tomato in rainy season	Increasing yield through adopting seasonal variety of Tomato during Rainy Season	10.	T ₁ -Farmer's practices. Planting in field (bed) then earthing after 1 month	Yield	4.834 t/ha	Highest yield was observed in treatment T ₃ which is highly significant in yield compare to control and also significant yield were found in T ₄ & T ₃ respectively as compare to check	1. Arka Abha performed well in field condition. 2. Availability of seeds should be in local market.	-	-
					T ₂ -Arka Abha + Farmers practices	-do-	9.725 t/ha				
					T ₃ - Arka Abha + RD (recommended dose) + MR (Mechanized Ridge)	-do-	14.263 t/ha				
					T ₄ - Arkha Abha + RD (N:P:K:: 90:60:60)	-do-	10.341 t/ha				

* No. of farmers

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practices. Planting in field (bed) then earthing after 1 month	4.834 t/ha.	8170 / ha	1.5:1
Arka Abha + RD (recommended dose) + MR (Mechanized Ridge)	14.263 t/ha.	46315 / ha	2.9:1
Technology refined**	-	-	-

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

** Give details of the technology assessed or refined and farmer's practice

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
paddy	Low land	Low yield of low land paddy	Integrated nutrient management in low land paddy.	10.	T ₁ - Farmers practices. (DAP 20 Kg/ h, urea 25 Kg/h)	Yield	t/ha	Highest yield was obtained in the treatment T ₃ which is significantly high as compare to the other treatment. Due to addition of Biofertilizer and potassium 74.89% increase in yield as compare to farmer practices	1. There is unavailability of BGA in local market. 2. Training programme should be organized on BGA production.	-	-
					T ₂ - Farmers practices +BGA @10 Kg/ h	-do-	3.37 t/ha				
					T ₃ - Farmers Practices + BGA @10 Kg/h + K ₂ C @ 25 kg/h	-do-	4.11 t/ha				

* No. of farmers

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmers practices. (DAP 20 Kg/ h, urea 25 Kg/h)	2.35 t/ha.	3037 / ha	1.22:1
Farmers Practices + BGA @10 Kg/h + K ₂ O @ 25 kg/h	4.11 t/ha.	15297 / ha	2.06:1
Technology refined**	-	-	-

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

** Give details of the technology assessed or refined and farmer's practice

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2006-07 and recommended for large scale adoption in the district

S. No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1.	Crop diversification	Sesame variety – TC-25 with full package of practices.	1. Training to farmers. 2. Krishak Gosthi. 3. Time to time follow up on Helpline. 4. Extension literature.	16	80	25
2.	Integrated crop management	Groundnut variety – AK-1224 with full package of practice.	-do-	25	200	50
3.	Integrated crop management	Mustard variety Shivani with full package of practices and phosphorus in the form of SSP	-do	10	60	20
4.	Cropping system	Linseed variety Shubhra with full package of practices.	-do	15	100	30
5.	Soil & water conservation	Red gram variety Birsa Arhar -1 with full package of practices.	-do	20	80	25
6.	Integrated crop management	Horse gram variety- Birsa Kulthi-1 with full package of practices	-do-	15	60	10
7.	Cropping system	Gram variety- Vijay with full package of practices.	-do-	15	80	20
8.	Cropping system	Lentil variety L-4076 with full package of practices.	-do	15	60	10
9.	Integrated crop management	Hybrid rice variety Arise-6444 with full package of practices.	-do-	50	300	100

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

b. Details of FLDs implemented during 2007-08 (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.	Sesame	Crop diversification	Variety TC-25 with N:P:K:: 40:80:20 Kg/ha	Kharif 2007	8.0	8.0	5	11	16	
2.	Groundnut	Integrated crop management	Variety AK-12-24 with N:P:K:: 50:50:20 Kg/ha	Kharif 2007	8.0	8.0	6	9	15	
3.	Mustard	Integrated crop management	Variety Shivani with N:P:K:: 50:50:20 Kg/ha	Rabi 2006-07	5.0	5.0	6	9	15	
4.	Linseed	Cropping system	Variety Shubhra with N:P:K:: 60:20:20 Kg/ha	Rabi 2006-07	2.0	2.0	3	7	10	
5.	Red gram	Soil & water conservation	Variety Birsa Arhar-1 with N:P:K:: 20:40:20 Kg/ha	Kharif 2007	5.0	5.0	6	12	18	
6.	Horse gram	Integrated crop management	Variety Birsa Kulthi-1 with N:P:K:: 20:40:20 Kg/ha	Kharif 2007	5.0	5.0	8	6	14	
7.	Gram	Cropping system	Variety Vijay with N:P:K:: 20:40:20 Kg/ha & seed treatment with Rhizobium culture	Rabi 2006-07	3.0	3.0	3	7	10	
8.	Lentil	Cropping system	Variety L-4076 with N:P:K:: 20:40:20 Kg/ha & seed treatment with Rhizobium culture	Rabi 2006-07	2.0	2.0	3	5	8	
9.	Rice	Integrated crop management	Variety Arise - 6444 with N:P:K:: 100:50:50 Kg/ha	Kharif 2007	5.0	5.0	9	5	14	
10.	Finger millet	Soil & water conservation	Variety A404 with N:P:K :: 20:30:20 Kg/ha	Kharif 2007	1.34	1.34	3	8	11	
11.	Cotton	Crop diversification	Variety Arvindo	Kharif 2007	-	2.84	3	6	9	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sesame	Kharif 2007	Upland rainfed	Red lateritic	Low	Medium	medium	Fallow	28 June to 9 July 07	15 October to 5 November 07	1302	76
Groundnut	Kharif 2007	Upland rainfed	Red lateritic	Low	Medium	High	Fallow / vegetable	20 June to 11 July 07	15 October to 5 November 07	1302	76
Mustard	Rabi 06-07	Upland irrigated	Red lateritic	Low	Low	Medium	Rice / vegetable	12 October to 29 October 06	5 March to 20 March 07	28.8	9
Linseed	Rabi 06-07	Lowland rainfed	Sandy loam to clay loam	Low	Low	Medium	Paddy	15 November to 7 December 06	25 March to 10 April 07	16.2	6
Red gram	Kharif 2007	Upland rainfed	Red lateritic	L	M	M	Fallow	19 June to 6 July 07	10-30 January 08	13205	81
Horse gram	Kharif 2007	Upland rainfed	Red lateritic	Low	Low	Low	Fallow	12-26 August 07	15-30 December 07	823	44
Gram	Rabi 06-07	Lowland restricted irrigated	Sandy loam to clay loam	Low	Medium	Low	Paddy	18 – 30 November	15-25 April 07	22	6
Lentil	Rabi 06-07	Lowland restricted irrigated	Sandy loam to clay loam	Low	Medium	Medium	Paddy	18 – 30 November	5-15 April 07	22	6
Rice	Kharif 2007	Lowland rainfed	Sandy loam to clay loam	Low	High	Medium	Fallow	16-30 June 07	1-20 November 07	1216	69
Finger Millet	Kharif 2007	Upland rainfed	Red lateritic	Lo	Lo	M	Fallow	24-26 July 07	10-11 November 07	1178	59
Cotton	Kharif 2007	Medium land irrigated	Red lateritic to sandy loam	Low	Medium	Medium	Fallow vegetable	18-29 August 07	5 January to 5 February 08	924	49

Performance of FLD

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Sesame	Variety TC-25 with N:P:K:: 40:80:20 Kg/ha	TC-25	16	8	3.2	1.9	2.65	2.07	28.01	Yield & net profit	Yield & net profit
2.	Ground nut	Variety AK-12-24 with N:P:K:: 50:50:20 Kg/ha	Ak-12-24	15	8	14.8	11.6	13.37	11.65	15.0	Yield & net profit	Yield & net profit
3.	Mustard	Variety Shivani with N:P:K:: 50:50:20 Kg/ha	Shivani	15	5	7.4	4.3	5.9	3.5	68.5	Yield & net profit	Yield & net profit
4.	Linseed	Variety Shubhra with N:P:K:: 60:20:20 Kg/ha	Shubhra	10	2	5.5	2.8	3.9	2.2	56.4	Yield & net profit	Yield & net profit
5.	Red gram	Variety Birsa Arhar-1 with N:P:K:: 20:40:20 Kg/ha	Birsa Arhar-1	18	5	12.5	10.3	11.8	9.57	23.30	Yield & net profit	Yield & net profit
6.	Horse gram	Variety Birsa Kulthi-1 with N:P:K:: 20:40:20 Kg/ha	Birsa Kulthi-1	14	5	7.2	4.9	6.37	4.51	41.2	Yield & net profit	Yield & net profit
7.	Gram	Variety Vijay with N:P:K:: 20:40:20 Kg/ha & seed treatment with Rhizobium culture	Vijay	10	3	12.3	8.4	10.6	6.2	70.9	Yield & net profit	Yield & net profit
8.	Lentil	Variety L-4076 with N:P:K:: 20:40:20 Kg/ha & seed treatment with Rhizobium culture	L-4076	8	2	12	7.5	9.4	5.3	77.3	Yield & net profit	Yield & net profit
9.	Rice	Variety Arise - 6444 with N:P:K:: 100:50:50 Kg/ha	Arise-6444	14	5	72.5	38.3	58.2	33.5	73.7	Yield & net profit	Yield & net profit
10.	Finger Millet	Variety A404 with N:P:K:: 20:30:20 Kg/ha	A404	11	1.34	24.4	13.1	20.5	12.8	60.2	Yield & net profit	Yield & net profit
11.	Cotton	Variety Arvindo	Arvindo	9	2.84	11.5	8.3	9.58	-	-	Yield of seed cotton	Yield & net profit

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

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check		
14	15	16	17	18	19	20	21
5348	4400	7950	5796	2602	1396	1:1.49	1:1.32
14000	13000	26740	21140	12740	8140	1:1.91	1:1.62
6300	4500	11800	7000	5500	2500	1:1.8	1:1.5
4000	3600	8500	6000	4500	2400	1:2.1	1:1.6
8000	5000	23600	19140	15600	14140	1:1.57	1:1.35
6006	4998	11466	8118	5407	3120	1:1.91	1:1.62
11000	8900	20000	12400	9000	3500	1:1.7	1:1.4
10500	7900	19000	11000	8500	3100	1:1.8	1:1.4
18000	14000	42195	24287	24195	10287	1:2.3	1:1.7
5500	4500	12300	7680	6800	3180	1:2.2	1:1.7
17000	-	33530	-	16530	-	1:1.9	-

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
All demonstrations were full package demonstration.						

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	There was lodging problem in Shivani variety in some plots in upland red lateritic soils during February after irrigation followed by high wind speed.
2.	No synchronous maturity of all pods was achieved in Birsa Arhar-1, some pods were shattering & some flowers were emerging simultaneously.
3.	Attack of BPH was seen in patches in hybrid rice Arise-6444 variety.

Farmers' reactions on specific technologies

S. No	Feed Back
1	In general farmers were happy and agreed to adopt all the demonstrated technologies by the KVK.

Extension and Training activities under FLD

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

c. Details of FLD on Enterprises

(i) Farm Implements

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

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

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

(iii) Other Enterprises

Enterprise	Variety/ breed/Species/ others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi compost								

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

A) ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	2	35	-	35	12	-	12	47
Cropping Systems	2	44	-	44	18	-	18	62
Crop Diversification	1	16	-	16	11	-	11	27
Integrated Farming								
Water management								
Seed production								
Nursery management	1	40	-	40	13	-	13	53
Integrated Crop Management								
Fodder production								
Production of organic inputs								
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.)								
b) Fruits								
Training and Pruning								
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								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs	2	28	-	28	14	-	14	42
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	1	16	-	16	6	-	6	22
Poultry Management								
Piggery Management	1	12	-	12	8	-	8	20
Goatry Management	1	8	-	8	8	-	8	16
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	14	14	-	3	3	17
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	1	-	18	18	-	6	6	24
Income generation activities for empowerment of rural Women	3	-	42	42	-	18	18	60
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
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	1	12	-	12	6	-	6	18
Small scale processing and value addition								
Post Harvest Technology	1	7	-	7	9	-	9	16
VII Plant Protection								
Integrated Pest Management								
Integrated Disease Management	1	14	-	14	4	-	4	18
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming	1	23	-	23	-	-	-	23
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								
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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs	3	48	3	51	22	10	32	83
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	23	303	77	380	131	37	168	548
(B) RURAL YOUTH								
Mushroom Production	1	14	3	17	5	-	5	22
Bee-keeping								
Integrated farming								
Seed production	2	36	-	36	19	-	19	55
Production of organic inputs								
Integrated Farming								
Planting material production								
Vermi-culture								

Sericulture								
Protected cultivation of vegetable crops	1	12	5	17	4	3	7	24
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	1	-	13	13	-	3	3	16
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery	1	13	1	14	11	3	14	28
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers	1	5	3	8	8	2	10	18
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								
TOTAL	7	80	25	105	47	11	58	163
(C) Extension Personnel								
Productivity enhancement in field crops	1	6	-	6	12	-	12	18
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs	1	8	-	8	13	-	13	21
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	2	-	2	19	-	19	21
Livestock feed and fodder production								
Household food security								
Women and Child care	1	-	4	4	-	20	20	24
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
TOTAL	4	16	4	20	44	20	64	84

B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management	2	34	2	36	13	-	13	49
Resource Conservation Technologies								
Cropping Systems	2	36	-	36	10	2	12	48
Crop Diversification								

Integrated Farming								
Water management								
Seed production	3	59	-	59	21	3	24	83
Nursery management	2	42	-	42	7	-	7	49
Integrated Crop Management	2	26	-	26	6	-	6	32
Fodder production								
Production of organic inputs								
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.)								
b) Fruits								
Training and Pruning								
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								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III. Soil Health and Fertility Management								
Soil fertility management	1	16	-	16	7	-	7	23
Soil and Water Conservation								
Integrated Nutrient Management	2	24	-	24	11	-	11	35
Production and use of organic inputs								
Management of Problematic soils	1	18	-	18	5	-	5	23
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV. Livestock Production and Management								
Dairy Management	2	46	-	46	12	-	12	58
Poultry Management								
Piggery Management	1	21	-	21	18	-	18	39
Rabbit Management								
Disease Management								
Feed management	2	39	-	39	22	-	22	61
Production of quality animal products								
V. Home Science/Women empowerment								

Household food security by kitchen gardening and nutrition gardening	2	-	21	21	-	23	23	44
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	2	-	27	27	-	11	11	38
Income generation activities for empowerment of rural Women	1	-	11	11	-	4	4	15
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	15	-	15	9	-	9	24
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements	1	14	-	14	5	-	5	19
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management								
Integrated Disease Management	1	17	-	17	9	-	9	26
Bio-control of pests and diseases	1	12	-	12	5	-	5	17
Production of bio control agents and bio pesticides								
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								
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								
X Capacity Building and Group Dynamics								
Leadership development	1	27	-	27	3	-	3	30
Group dynamics								
Formation and Management of SHGs	2	32	-	32	17	4	21	53
Mobilization of social capital								
Entrepreneurial development of farmers/youths	2	29	-	29	21	1	22	51

WTO and IPR issues								
XI. Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII. Others (Pl. Specify)								
TOTAL	34	507	61	568	201	48	249	817
(B) RURAL YOUTH								
Mushroom Production	1	6	8	14	8	3	11	25
Bee-keeping								
Integrated farming								
Seed production	2	32	-	32	23	-	23	55
Production of organic inputs								
Integrated Farming	1	8	4	12	9	4	13	25
Planting material production								
Vermi-culture	1	14	-	14	9	-	9	23
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	1	-	15	15	-	10	10	25
Production of quality animal products								
Dairying	1	20	-	20	7	3	10	30
Sheep and goat rearing	1	17	2	19	16	1	17	36
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								
TOTAL	8	97	29	126	72	21	93	219
(C) Extension Personnel								
Productivity enhancement in field crops								
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								

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management	2	34	2	36	13	-	13	49
Resource Conservation Technologies	2	35	-	35	12	-	12	47
Cropping Systems	4	80	-	80	28	2	30	110
Crop Diversification	1	16	-	16	11	-	11	27
Integrated Farming								
Water management								
Seed production	3	59	-	59	21	3	24	83
Nursery management	3	82	-	82	20	-	20	102
Integrated Crop Management	2	26	-	26	6	-	6	32
Fodder production								
Production of organic inputs								
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.)								
b) Fruits								
Training and Pruning								
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								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III. Soil Health and Fertility Management								
Soil fertility management	1	16	-	16	7	-	7	23
Soil and Water Conservation								
Integrated Nutrient Management	2	24	-	24	11	-	11	35
Production and use of organic inputs	2	28	-	28	14	-	14	42

Management of Problematic soils	1	18	-	18	5	-	5	23
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV. Livestock Production and Management								
Dairy Management	3	62	-	62	18	-	18	80
Poultry Management								
Piggery Management	2	33	-	33	26	-	26	59
Goatry Management	1	8	-	8	8	-	8	16
Disease Management	2	39	-	39	22	-	22	61
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	3	-	41	41	-	14	14	55
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	-	45	45	-	17	17	62
Income generation activities for empowerment of rural Women	4	-	53	53	-	22	22	75
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	15	-	15	9	-	9	24
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements	2	26	-	26	11	-	11	37
Small scale processing and value addition								
Post Harvest Technology	1	7	-	7	9	-	9	16
VII. Plant Protection								
Integrated Pest Management								
Integrated Disease Management	2	31	-	31	13	-	13	44
Bio-control of pests and diseases	1	12	-	12	5	-	5	17
Production of bio control agents and bio pesticides								
VIII. Fisheries								
Integrated fish farming	1	23	-	23	-	-	-	23
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								
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								
X. Capacity Building and Group Dynamics								
Leadership development	1	27	-	27	3	-	3	30
Group dynamics								
Formation and Management of SHGs	5	80	3	83	39	14	53	136
Mobilization of social capital								
Entrepreneurial development of farmers/youths	2	29	-	29	21	1	22	51
WTO and IPR issues								
XI. Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII. Others (Pl. Specify)								
TOTAL	57	810	144	954	332	73	405	1359
(B) RURAL YOUTH								
Mushroom Production	2	20	11	31	13	3	16	47
Bee-keeping								
Integrated farming								
Seed production	4	68	-	68	42	-	42	110
Production of organic inputs								
Integrated Farming	1	8	4	12	9	4	13	25
Planting material production								
Vermi-culture	1	14	-	14	9	-	9	23
Sericulture								
Protected cultivation of vegetable crops	1	12	5	17	4	3	7	24
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	2	-	28	28	-	13	13	41
Production of quality animal products								
Dairying	1	20	-	20	7	3	10	30
Sheep and goat rearing	1	17	2	19	16	1	17	36
Quail farming								
Piggery	1	13	1	14	11	3	14	28
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers	1	5	3	8	8	2	10	18
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								
TOTAL	15	177	24	231	119	32	151	382
(C) Extension Personnel								
Productivity enhancement in field crops	1	6	-	6	12	-	12	18
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								

Protected cultivation technology								
Formation and Management of SHGs	1	8	-	8	13	-	13	21
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	2	-	2	19	-	19	21
Livestock feed and fodder production								
Household food security								
Women and Child care	1	-	4	4	-	20	20	24
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
TOTAL	4	16	4	20	44	20	64	84

Note: 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		
					Male	Female	Total	Male	Female	Total

(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	
Mushroom	Entrepreneurship development	Method of production of oyster & Button mushroom.	7	33	16	47	Mushroom unit	5	10	
Paddy	-do-	Method of production of paddy seed on community basis.	7	110	-	110				
Vermi compost	-do-	Method of producing vermi compost & reusing of vermi.	7	23	-	23	Vermi compost	2	4	
Vegetable	-do	Cultivation of off season vegetable.	7	16	8	24	Off season vegetable production unit.	2	6	
Value addition	-do-	Preparation of tomato ketchup, sauce & different types of pickles.	7	-	41	41				
Dairy	-do-		8	27	3	30				
Goat farming			10	33	3	36				
Piggery			7	24	4	28				

*training title should specify the major technology /skill transferred

(E). Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants							Sponsoring Agency
							Male		Female		Total			
					PF/R Y/EF	Others	SC/ST	Others	SC /ST	Others	SC/ ST	Total		
1.	Micro lift irrigation	Soil water conservation	May, June, July	1	RY	8	944	315	-	-	944	315	1259	DRDA, Dhanbad
2.	Basic record keeping	Formation and Management of SHGs	May	1	PF	3	48	3	51	22	99	25	124	NABARD
Total				2	-	11	992	318	51	22	1043	340	1383	

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	7	241	54	295	22	-	22	263	76	339
Kisan Mela	2	678	113	791	31	11	42	709	124	833
Kisan Gosthi	8	962	227	1189	24	7	31	986	234	1220
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	3	66	24	90	-	-	-	66	24	90
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	2	43	11	54	-	-	-	43	11	54
Lectures delivered	18									
Newspaper coverage	41									
Radio coverage	6									
TV coverage	-									
Radio Programmes	6									
TV Programmes	-									
Publications	21									
Popular articles	3									
Extension Literature	10									
Advisory Services	7									
Scientific visit to farmers field	51									
Farmers visit to KVK	65									
Diagnostic visits	116									
Field visits	-									
Exposure visits	2									
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Agriculture Camps	-									
Clinic day	-									
Soil health Camp	1	31	7	38	-	-	-	31	7	38
Animal Health Camp	1	62	17	79	-	-	-	62	17	79
Agri mobile clinic	-									
Soil test campaigns	-									
Farm Science Club Conveners meet	2	18	4	22	-	-	-	18	4	22
Self Help Group Conveners meetings	1	8	3	11	-	-	-	8	3	11
Mahila Mandals Conveners meetings	1	-	17	17	-	-	-	-	17	17
Celebration of important days (specify)	2									
Any Other (Specify)	274									
Krishak helpline										
Total	643	2109	477	2596	77	18	95	2186	517	2703

3.5 Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	MTU 7029	40.35	48420	200
OILSEEDS					
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Mushroom	Oyster	0.30	1800	70

SUMMARY

Sl. No.	Crop		Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	Paddy	40.35	48420	200
2	OILSEEDS				
3	PULSES				
4	VEGETABLES				
5	FLOWER CROPS				
6	OTHERS	Mushroom	0.30	1800	70
TOTAL			40.65	50220	270

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

BIO PRODUCTS						
Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1						
2						
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

SUMMARY						
Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK

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

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

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

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	-	-	-
Technical reports	1. Annual report 2007-08 for Annual workshop	Dr. Ashok Kumar Dr. J. K. Lal Sri Rajeev Kumar Sri Mithilesh Kumar	15
	2. Annual Action plan 2008-09 for annual workshop.	Dr. Ashok Kumar Dr. J. K. Lal Sri Rajeev Kumar Sri Mithilesh Kumar	15
	3. Annual report 2007-08 & Action plan 2008-09 for SAC meeting.	Dr. Ashok Kumar Dr. J. K. Lal Dr. A. K. Srivastava Sri Rajeev Kumar Sri Navin Kumar Mrs. A. Mishra Mrs. E. Xaxa Sri Mithilesh Kumar	30
	4. Performance Audit report.	Dr. Ashok Kumar Dr. J.K.Lal Dr. A.K.Srivastava Sri Devkant Prasad	5
News letters	-	-	-
Technical bulletins	1. Micro lift irrigation	Dr. A. Mishra	1000
	2. Importance of organic fertilizer & its preparation	Dr. Ashok Kumar	100
Popular articles	1. House level food grains storage.	Sri Rajeev Kumar	1000
	2. SHG formation, regulation and its works.	Dr. A .K. Srivastava	1000
	3. Rice seedling through Dapog's method.	Sri Devkant Prasad	1000
	4. Zero tillage rice cultivation.	Dr. Ashok Kumar	1000
Extension literature	1. Vermi compost preparation & its benefits.	Dr. J. K. Lal	1000
	2. Rain water harvesting & advanced method of irrigation.	Sri Rajeev Kumar Sri Devkant Prasad	1000
	3. SHG formation, regulation & its work.	Dr. A .K. Srivastava	2000
	4. Integrated pest management in vegetables.	Sri Navin Kumar	2000
	5. House level food grain storage.	Sri Rajeev Kumar Dr. Ashok Kumar	2000
	6. Zero tillage rice cultivation.	Sri Devkant Prasad	2000

		Dr. Ashok Kumar	
	7. Feed preparation for milch animals.	Dr. H. Singh	1000
	8. Jatropha cultivation.	Dr. Ashok Kumar Sri Devkant Prasad Sri Navin Kumar	2000
	9. "Dapog" method of rice seedling raising.	Sri Devkant Prasad Sri Rajeev Kumar	2000
	10. Effect of time of transplanting on rice yield.	Sri Devkant Prasad	1000
	Others (Pl. specify)		
	TOTAL	20	21165

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

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

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 - 2 (Palani and Sindurpur)
- ii. No. of farm families selected - 200
- iii. No. of survey/PRA conducted - 1

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

1. Year of establishment : 2007, but function from Feb 2008
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	pH meter	1	9500
2	Spectrometer	1	52550
3	Flame photometer	1	52350
4.	Conductivity meter	1	12000
5.	Electronic balance	1	56000

6.	High speed soil stirrer	1	14900
7.	200 D sine pan dhorca	1	13500
8.	Eco Still eco 20 D qualigen	1	26500
9.	QSB 50 min quartz distillation set	1	48000
10.	KDTG kjeld distillation set	1	19800
11.	Rotation shaker	1	24900
12.	Hot oven	1	4800
13.	Hot plate	1	10900
14.	Water bath	1	18900
15.	Digital balance	1	6500

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	42	18	6	-
Water Samples	-	-	-	-
Total	42	18	6	-

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)

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

5.0 LINKAGES

5.1 Functional linkage with different organizations

S.N.	Name of organization	Nature of linkage
1.	DRDA, Dhanbad	Rs. 150000 contributed for conducting training & participation in meeting.
2.	District Agriculture Office, Dhanbad	Joint diagnostic survey, SREP formation of ATMA, participation in meeting & jointly organized farmers fare.
3.	District Animal Husbandry Office, Dhanbad	Joint training programme & participation in meeting.
4.	District Fisheries Office, Dhanbad	Joint training programme & participation in meeting.
5.	District Horticulture Office, Dhanbad	Joint training programme & participation in meeting.
6.	District Plant Protection Office, Dhanbad	Joint diagnostic survey & participation in meeting.
7.	District Forest Office, Dhanbad	Participation in meeting.
8.	Agricultural produce market committee (Bazaar Samiti), Dhanbad.	Joint training programme, participation in meeting & joint Krishak Gosthi.
9.	Lead Bank Manager office, Dhanbad	Financial support from banks to trained persons for entrepreneur development.
10.	Zonal Office, Bank of India Dhanbad	Financial support from banks to trained persons for entrepreneur development.
11.	NABARD, Dhanbad.	Financial support to SHG formed by KVK, financial contributions for trainings & participation in meeting.
12.	Tata Steel Rural Development Society, Dhanbad.	Joint training programme & participation in meeting.

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Sponsored training programme on Basic record keeping for the SHGs.	09.05.2007	NABARD	4600
Sponsored training programme on micro lift irrigation programme	24.05.2007	DRDA, Dhanbad	1,52,300

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes.

S. No.	Programme	Nature of linkage	Remarks
1.	Meeting for formulation of SREP.	Participation in meeting.	Committee constituted for formulation of SREP.
2.	Meeting for conducting training & FLD.	Participation in meeting.	No further action taken by PD, ATMA in this regard.

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1.	Mother plant nursery established in 1 hectare	Financial support	No further contingency released for nursery establishment.

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
-	-	-	-
-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Progeny Orchard	2006	1 ha	MANGO- Langra, Maldha, Dasher, Amrapali, Mallika, ANOLA- N-6, N-10 Krishna, kanchan, Chakiya GUAVA- L-49, Allahabad Safeda, Lalit, Arkamridula, Prantprabhat BEL- CHIS 1, 2, NB 5, Pant urvarshi, Pant Shivani, BER- Gola LEMON- Pant lemon , K lemon	-	-	-	-	-
2.	Tissue culture	2007	-	Function started	-	-	-	-	-
3.	Biofertilizer	-	-	Yet to started	-	-	-	-	-

	unit								
4.	Mushroom unit	2007	-	Production & training started	-	-	-	-	-
5.	Value addition	2007	-	Training started	-	-	-	-	-
6.	Sewing & knitting	2007	-	Training started	-	-	-	-	-
7.	Seed processing	2007	-	Started	-	-	-	-	-
8.	Soil laboratory	2007	-	Started	-	-	-	-	-

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals (Paddy)	22.06.07	24.10.07	1	Anjali	Certified seed	16.97	15300	-	Yet to be sold
-do-	28.06.07	1 - 7.12.07	2	MTU 7029	Certified seed	60	39592	-	Yet to be sold
Pulses (Arhar)	8.08.07	10.03.08	1	Birsa Arhar-1	Certified seed	-	-	-	Yet to be sold
Gram	22.12.07	-	0.53	KPG-59	Foundation seed	-	-	-	Standing crops
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Gladiolus	-	-	0.1	Different variety	-	-	-	-	Standing
Fruits									
Vegetables (French bean)	29.10.07	-	0.4	-	Certified seed	-	-	-	Harvesting is going on
Pea	12.11.07	-	0.4	-	Certified seed	-	-	-	Harvesting is going on
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)
January 2008	180	6	-
February 2008	168	6	-
March 2008	175	7	-

(For whole of the year)

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	State Bank of India	Gandhinagar, Ranchi	10106155418
With KVK	State Bank of India	Hirapur, Dhanbad	10900477204

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	-	-	33500	87450	
Extension activities	-	-	4800	16600	
TA/DA/POL etc.	-	-	7200	12300	
TOTAL	-	-	45500	116350	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2006	Rabi 2006 -07	Kharif 2007	Rabi 2007-08	
Inputs	-	-	20800	45400	
Extension activities	-	-	2500	6400	
TA/DA/POL etc.	-	-	3500	9700	
TOTAL	-	-	24100	61500	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	Only seed supplied by Director Seeds & Farms, BAU.				
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.5 Utilization of KVK funds during the year Feb. 2008 (year-wise separately) (current year and previous year)

S. No.	Particulars	Sanctioned In lakhs	Released In lakhs	Expenditure In lakhs
A. Recurring Contingencies				
1	Pay & Allowances	28.00	17.00	15.96851 up to Dec. 07
2	Traveling allowances	1.00	0.50	
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	1.75	0.88	1.65248 up to Feb. 08
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)	1.75	0.87	1.41585 up to Feb. 08
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	0.25	0.13	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1.25	0.62	0.81 up to Feb. 08
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		34.00	20.00	19.94684

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 lakhs) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2004 to March 2005	-	-	-	-
April 2005 to March 2006	100000	1800	55045	46755
April 2006 to March 2007	46755	21231 + (129068 received from Director, seeds & farms, BAU.)	97268	99786

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

8.1 Constraints

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

SUMMARY TABLES

1 Details of Technology assessment and refinement

Table 1A: Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation					1					1
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management	1									1
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	1				1					2

Table 1 B; Abstract on the number of technologies refined in respect of crops : Not done

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease										

Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

Table 1 C: Abstract on the number of technologies assessed in respect of livestock enterprises: Not done

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						

Table 1 D: Abstract on the number of technologies refined in respect of livestock enterprises: Not done

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL						

Table – 1 E Details of technology refined: Not done

Crop / Enterprise	Technology Assessed	No. replications	Technology refined	Result justifying the refinement

2. Details of Frontline Demonstrations

Table – 2 A Front Line Demonstrations on Oilseed Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (q/ha)	Local Check (q/ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
							Demo	Local	Demo	Local	Demo	Local
Sesame	Variety with package	16	8	2.65	2.07	28.01	Yield & net profit	Yield & net profit	2602	1396	1:1.49	1:1.32
Ground nut	Variety with package	15	8	13.37	11.65	15.0	Yield & net profit	Yield & net profit	12710	8140	1:1.91	1:1.62
Mustard	Variety with package	15	5	3.5	5.9	68.5	Yield & net profit	Yield & net profit	5500	2500	1:1.8	1:1.5
Linseed	Variety with full package	10	2	2.2	3.9	56.4	Yield & net profit	Yield & net profit	4500	2400	1:2.1	1:1.6

Table – 2 B Front Line Demonstrations on Pulse Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield	Local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
							Demo	Local	Demo	Local	Demo	Local
Red gram	Variety with full package	18	5	11.8	9.57	23.3	Yield & net profit	Yield & net profit	15600	14140	1:1.57	1:1.35
Gram	Variety with full package	10	3	10.6	6.2	70.9	Yield & net profit	Yield & net profit	9000	3500	1:1.7	1:1.7
Lentil	Variety with full package	8	2	9.4	5.3	77.3	Yield & net profit	Yield & net profit	8500	3100	1:1.8	1:1.4
Horse gram	Variety with full package	14	5	6.37	4.51	41.2	Yield & net profit	Yield & net profit	5460	3120	1:1.9	1:1.6

Table – 2 C Front Line Demonstrations on Other Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield	Local Check	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
							Demo	Local	Demo	Local	Demo	Local
Paddy	Hybrid variety Arise-6444	14	5.0	58.2	33.5	73.7	Yield & net profit	Yield & net profit	24195	10287	1:2.3	1:1.7
Finger millet	A404	11	1.34	20.5	12.8	60.2	Yield & net profit	Yield & net profit	6800	3180	1:2.2	1:1.7
Cotton	Arvindo	9	2.84	9.58	-	-	Yield & net profit	-	Yet to be sold.			

Table – 2 D Front Line Demonstrations on Other enterprises: Not done

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Size of Unit	Parameter indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
						Demon.	Local check		

3. Details of training programmes conducted:

Table – 3 A. Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women (regular + sponsored)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Crop Production								
Weed Management	2	34	2	36	13	-	13	49
Resource Conservation Technologies	2	35	-	35	12	-	12	47
Cropping Systems	4	80	-	80	28	2	30	110
Crop Diversification	1	16	-	16	11	-	11	27
Integrated Farming								
Micro Irrigation/Irrigation								
Seed production	3	59	-	59	21	3	24	83
Nursery management	3	82	-	82	20	-	20	102
Integrated Crop Management	2	26	-	26	6	-	6	32
Soil and Water Conservation								
Integrated Nutrient Management								
Production of organic inputs								
Horticulture								
a) Vegetable Crops								

Production of low value and high volume crop								
Off-season vegetables								
Nursery raising								
Exotic vegetables								
Export potential vegetables								
Grading and standardization								
Protective cultivation								
b) Fruits								
Training and Pruning								
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								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
Soil Health and Fertility Management								
Soil fertility management	1	16	-	16	7	-	7	23
Integrated water management								
Integrated nutrient management	2	24	-	24	11	-	11	35
Production and use of organic inputs	2	28	-	28	14	-	14	42
Management of Problematic soils	1	18	-	18	5	-	5	27
Micro nutrient deficiency in crops								
Nutrient use efficiency								
Balanced use of fertilizers								
Soil and water testing								
Livestock Production and Management								
Dairy Management	3	62	-	62	18	-	18	80
Poultry Management								
Piggery Management	2	33	-	33	26	-	26	59
Goat Management	1	8	-	8	8	-	8	16
Animal Disease Management	2	39	-	39	22	-	22	61
Feed and Fodder technology								
Production of quality animal products								
Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	3	-	41	41	-	14	14	65
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Processing and cooking								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	3	-	45	45	-	17	17	62
Women empowerment	4	-	53	53	-	22	22	75
Location specific drudgery production								

Rural Crafts								
Women and child care								
Agril. Engineering								
Farm machinery and its maintenance	1	15	-	15	9	-	9	24
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	2	26	-	26	11	-	11	37
Small scale processing and value addition								
Post Harvest Technology	1	7	-	7	9	-	9	16
Plant Protection								
Integrated Pest Management								
Integrated Disease Management	2	31	-	31	13	-	13	44
Bio-control of pests and diseases	1	12	-	12	5	-	5	17
Production of bio control agents and bio pesticides								
Fisheries								
Integrated fish farming	1	23	-	23	-	-	-	23
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								
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								
Capacity Building and Group Dynamics								
Leadership development	1	27	-	27	3	-	3	30
Group dynamics								
Formation and Management of SHGs	5	80	3	83	39	14	53	136
Mobilization of social capital								
Entrepreneurial development of farmers/youths	2	29	-	29	21	1	22	51
Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Others (Pl. specify)								
TOTAL	57	810	144	954	332	73	405	1359

Table – 3 B Area-wise distribution of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Mushroom Production	2	20	11	31	13	3	16	47
Bee-keeping								
Integrated farming								
Seed production	4	68	-	68	42	-	42	110
Production of organic inputs								
Integrated Farming	1	8	4	12	9	4	13	25
Planting material production								
Vermi-culture	1	14	-	14	9	-	9	23
Sericulture								
Protected cultivation of vegetable crops	1	12	5	17	4	3	7	24
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	2	-	28	28	-	13	13	41
Production of quality animal products								
Dairying	1	20	-	20	7	3	10	30
Sheep and goat rearing	1	17	2	19	16	1	17	36
Quail farming								
Piggery	1	13	1	14	11	3	14	28
Rabbit farming								
Poultry production								
Ornamental fisheries								
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								
TOTAL	14	172	51	223	111	30	141	364

Table – 3 C Area-wise distribution of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops	1	6	-	6	12	-	12	18
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs	1	8	-	8	13	-	13	21
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
Management in farm animals	1	2	-	2	19	-	19	21
Livestock feed and fodder production								
Household food security								

Women and Child care	1	-	4	4	-	20	20	24
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (pl.specify)								
Total	4	16	4	20	44	20	64	84

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	7	241	54	295	22	-	22	263	76	339
Kisan Mela	2	678	113	791	31	11	42	709	124	833
Kisan Gosthi	8	962	227	1189	24	7	31	986	234	1220
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	3	66	24	90	-	-	-	66	24	90
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	2	43	11	54	-	-	-	43	11	54
Lectures delivered	18									
Newspaper coverage	41									
Radio coverage	6									
TV coverage	-									
Radio Programmes	6									
TV Programmes	-									
Publications	21									
Popular articles	3									
Extension Literature	10									
Advisory Services	7									
Scientific visit to farmers field	51									
Farmers visit to KVK	65									
Diagnostic visits	116									
Field visits	-									
Exposure visits	2									
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Agriculture Camps	-									
Clinic day	-									
Soil health Camp	1	31	7	38	-	-	-	31	7	38
Animal Health Camp	1	62	17	79	-	-	-	62	17	79
Agri mobile clinic	-									
Soil test campaigns	-									
Farm Science Club Conveners meet	2	18	4	22	-	-	-	18	4	22
Self Help Group Conveners meetings	1	8	3	11	-	-	-	8	3	11
Mahila Mandals Conveners meetings	1	-	17	17	-	-	-	-	17	17
Celebration of important days (specify)	2									
Any Other (Specify) Krishak helpline	274									
Total	643	2109	477	2596	77	18	95	2186	517	2703

Table – 5 A Productions of Seeds

Sl. No.	Crop	Variety	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I. CEREALS					
1	Paddy	Anjali	16.97	Yet to be sold	
2	Paddy	MTU-7029	60	Yet to be sold	
3					
4					
5					
6					
Total					

II. OIL SEEDS					
1					
2					
3					
4					
5					
6					
Total					
III. PULSES					
1	Arhar	Birsa Arhar-1	--	--	
2	Gram	KPG-59	--	Standing	
3					
4					
5					
6					
Total					
IV. VEGETABLES					
1	French bean	--	--	Harvesting is going on	
2	Pea	--	--	Harvesting is going on	
3					
4					
5					
6					
Total					
V. OTHERS					
1					
2					
3					
4					
5					
Total					

SUMMARY : Not done

Sl. No.	Crop	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I	CEREALS			
II	OIL SEEDS			
III	PULSES			
IV	VEGETABLES			
V	OTHERS			
TOTAL				

Table – 5 B Production of planting/seedling materials of Fruits/Vegetables/Forest Species: Not done

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I. FRUITS					
1					
2					
3					
4					
5					
Total					

II. VEGETABLES					
1					
2					
3					
4					
5					
Total					
III. SPICES					
1					
2					
3					
4					
5					
Total					
IV. FOREST SPECIES					
1					
2					
3					
4					
5					
Total					
V. ORNAMENTAL CROPS					
1					
2					
3					
4					
5					
Total					
VI. PLANTATION CROPS					
1					
2					
3					
4					
5					
Total					
VII. OTHERS					
1					
2					
3					
4					
5					
Total					

SUMMARY: Not done

Sl. No.	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I	FRUITS			
II	VEGETABLES			
III	SPICES			
IV	FOREST SPECIES			
V	ORNAMENTAL CROPS			
VI	PLANTATION CROPS			
VII	OTHERS			
TOTAL				

Table –5 C Production of bio products : Not done

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
I. BIOAGENTS						
1						
2						
3						
4						
II. BIOFERTILIZERS						
1						
2						
3						
4						
III. BIO PESTICIDES						
1						
2						
3						
4						
5						

SUMMARY: Not done

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
I	BIOAGENTS					
II	BIO FERTILIZERS					
III	BIO PESTICIDE					
	TOTAL					

Table 5 D Livestock materials: Not done

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
I. Cattle						
II. SHEEP AND GOAT						
III. POULTRY						

IV. FISHERIES						
V. Others (Specify)						

SUMMARY: Not done

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
I	CATTLE					
II	SHEEP & GOAT					
III	POULTRY					
IV	FISHERIES					
V	OTHERS					
	TOTAL					